Missouri
Botanical
Garden

bulletin

Winter 2012-2013 Vol. 101, No. 1 www.mobot.org

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IT

photo by Koraley Northen

President's Comment

With the holiday season in full swing, we look back at the past months and reminisce about the great accomplishments and memories made at the Garden. This year's events and exhibits took us on an exciting journey, highlighting the Garden's research and conservation efforts on China's extensive plant life. We commemorated 25 years of work in one of the most biodiverse areas in the world.

The celebration continues with this year's Gardenland Express theme, "Merry Botanical Traditions." It features some of the most beloved holiday plants such as holly and mistletoe, and silk sculptures made by the same Lantern Festival artists who dazzled so many of us this summer. These details are part of what goes on behind the scenes of our two flower shows, carefully planned and crafted by a dedicated team just for you (see page 8).

For many, visiting Gardenland Express is as much a part of the holidays as opening presents. However, most holiday traditions occur around the table. This time of year wouldn't be the same without our own family traditions. Mine includes my grandmother's fruitcake (see page 7). The essential connection between plants and our diverse food cultures has a long, rich history and is often taken for granted when we prepare our meals. In 2013, the Garden invites you to celebrate Foodology and explore the wonderful sweet, tangy, and spicy world of food. All our nutrition ultimately comes from plants.

The Garden could not have completed 25 years of plant research in China and continue to do so in other parts of the world without the support of our loyal members. Thank you for making 2012 another memorable year!

Peter Wyse Jackson

Dr. Peter Wyse Jackson,
President

You Make Us Great

You are among 43,000 households that support the Missouri Botanical Garden through membership. You are the cornerstone of the Garden's success. It is impossible to say too often how very much your membership means. From the Garden to you: ***thank you!***

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Garden Hours

The Garden is open 9 a.m. to 5 p.m. every day except Thanksgiving Day, Christmas Eve, and New Year's Eve when it closes early at 4 p.m. Closed on Christmas Day.

Outdoor walking hours begin at 7 a.m. Wednesday and Saturday.

General Admission

$8 ($4 for residents of St. Louis City and County); children 12 and under are free. Garden members receive free admission (based on level).

Children's Garden: $5 for children; adults admitted free. ($3 for Garden members' children.) Members' children admitted free on Tuesdays. Open April through October.

Contact

Missouri Botanical Garden
4344 Shaw Blvd., St. Louis, MO 63110
(314) 577-5100 • www.mobot.org

On the Cover:

Foster holly, *Ilex × attenuata 'Fosteri'*.
Photo by Brian Mueller.

Credits

Editor/Designer: Andrea Molina

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photo by Kyle Spradley

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To discover and share knowledge about plants and their environment in order to preserve and enrich life.

– mission of the Missouri Botanical Garden

News

Glassberg Receives Greensfelder Medal

The Missouri Botanical Garden awarded the Greensfelder Medal to Sunny Glassberg on September 21. Garden President Dr. Peter Wyse Jackson hosted a private dinner at the President's Residence in Glassberg's honor.

The Greensfelder Medal recognizes an individual's contributions to garden, park, and landscape planning as well as urban improvement. Through the years, Glassberg has collaborated with and supported local organizations such as the St. Louis Zoo, Forest Park, Washington University, and the Missouri Botanical Garden.

She has been particularly connected with the Garden's Shaw Nature Reserve. Her generous contributions include the Glassberg Family Pavilions, which serve as shelters and stages for educational programs, and additional restrooms that are essential for field trips. She is also committed to providing better educational opportunities for children. This school year, she is funding transportation, lodging, and programming at the Reserve for children who may otherwise not have the opportunity to explore and learn from the natural world.

The Greensfelder Medal was named after Albert P. and Blanche Y. Greensfelder. Their leadership and commitment to green space preservation left a legacy that is best exemplified by the transformation of a mining and logging site into what is known today as Greensfelder Park in west St. Louis County. The medal, which was first presented in 1980, is not awarded annually but only when the Garden identifies a person who demonstrates the Greensfelders' love of parks and nature.

Dr. Peter Wyse Jackson, Sally Sands, Sunny Glassberg, John Behrer, and Bob Sands at the private dinner held in Glassberg's honor. (photo by Sharon Mertzlufft)

The 2009 MILES ZX405 electric vehicle can fit up to four people, or its back seats can be put down to create more trunk space. (photo by Allie Bronsky)

Meet "Miles," the Garden's New EV Member

The Garden's transportation fleet has a new addition. The black 2009 MILES ZX405 was donated to the Garden by Kevin and Tracy Fober of Creve Coeur, Missouri, in July. "Miles" is a 110V/20 amp electric vehicle (EV) that goes up to 25 mph for 15 to 20 miles per charge.

"Miles" joins the Garden's existing electric vehicle, the 2000 Global Electric Motorcars (GEM) eS model, used by the maintenance staff. Both are licensed to be on the road, but while the GEM is like a two-seat golf cart with a utility bed in the back, "Miles" is closer to a regular four-passenger car. "[With 'Miles'] we've added versatility to our transportation fleet as well as our sustainable strategy," said Deborah Frank, vice president of Sustainability at the Garden.

Both electric vehicles can be charged on a regular 120V outlet, or AC Level 1, like the ones found at home. Last spring the Garden added two AC Level 2 charging stations (240V) that can support up to four vehicles. They are located in the west parking lot and are free to all Garden visitors.

Help Preserve Part of the Garden's Rich History

The most historic sections of the Garden's eastern perimeter wall will be restored next spring thanks to a grant from the Department of Interior's National Park Service through the *Save America's Treasures* grant program. The $529,623 grant requires a dollar-to-dollar match from the Garden. If you would like to contribute, stop by the Ridgway Visitor Center and make a donation at the kiosk or send a gift to:

Save the Wall
Missouri Botanical Garden
P.O. Box 299
St. Louis, MO 63166-0299

Images of America: Missouri Botanical Garden

Images of America
MISSOURI BOTANICAL GARDEN

Arcadia Publishing released a new installment in its St. Louis series that covers the past and present of the Garden. *Images of America: Missouri Botanical Garden* was released November 5 and is now on sale at the Garden Gate Shop. The book is a photographic summary of the Garden's history and most recent achievements. "I want people to be able to take the book, go out in the Garden, and get a sense of where things use to be and how things have changed," said author Todd Styles.

Styles worked closely with the Garden's Archives Department to provide a thorough and accurate record that includes about 200 historical Garden photos. The book covers events such as Henry Shaw's land acquisition for the Garden, the pollution crisis in St. Louis that led to the establishment of the Shaw Nature Reserve, and the Garden's research and conservation work around the world. It also includes a foreword written by Garden President Dr. Peter Wyse Jackson.

Lehmann Rose Garden Winter Makeover

The Lehmann Rose Garden will undergo renovations this winter, to be completed in April 2013. Minimal organic spraying and better planting and soil techniques will make the garden more sustainable. Visit **www.mobot.org/lehmann** for more.

2013 Members' Days and Events*

Friday, February 1	Orchid Show Preview
Saturday, February 23	Conservation Club: Plant Conservation in Madagascar
Tuesday, February 26	Vegetable Gardening with Chip Tynan
Tuesday, March 12	Butterfly House, March Morpho Mania
Tuesday, March 12	Conservation Club: The Merits of Local Food
Saturday, March 23	Eggstravaganza
Thursday, April 25	Herb Presentation
Monday, May 1	Conservation Club: Creating Nesting Places for Bluebirds
Friday, May 10	Shaw Nature Reserve, Spring Wildflower Market
Tuesday, May 21	Succulent Plant Collection with Andrew Wyatt
Friday, June 4	Conservation Club: Pollinators
Friday, June 21	Musical Evening
Tuesday, July 16	Herbarium & Library Tour with Doug Holland and Jim Solomon
Thursday, July 18	Members' Family Picnic
Thursday, September 26	Henry Shaw Landscapes with John Karel
Saturday, October 5	Best of Missouri Market® Members' Breakfast
Tuesday, October 8	Butterfly House, October Owls and Orchids
Sunday, October 27	Ghouls in the Garden
Tuesday, November 12	Holiday Decorating
Wednesday, December 4	Holiday Flower and Train Show Preview
Saturday, December 7	Breakfast with Santa

Volunteer leadership groups' events that are open to the community include:

Saturday, February 9	Valentine's Evening
Saturday, February 16	Trivia Night–Garden Style
Sunday, April 28	Tulip Trot
Wednesday, September 11	Herbalooza
Friday, October 18	Fest-of-Ale

**subject to change*

Award-winning Garden: Visual Communications

Print, video, and online projects that have recently been recognized:

A Guide to the Missouri Botanical Garden
2012 Award of Excellence,
The Communicator Awards

Linnean House: Historic Greenhouse of the Missouri Botanical Garden
2012 Award of Excellence
The Communicator Awards

Bulletin
2012 Award of Distinction
The Communicator Awards

Green Today Greener Tomorrow: 2010 Annual Report
2012 Award of Distinction
The Communicator Awards

Missouri Botanical Garden Website (SteadyRain)
2012 Award of Excellence
2012 Award of Distinction
The Communicator Awards

2012 Gold Winner
Summit Creative Awards

Garden For the World (Visiontracks, Inc.)
2012 Film/Video Bronze Winner
Telly Awards

News cont.

Pete Hitch and Jim Cocos install the new weather station that will collect important data for both the Garden and the MDC. (photo by Kevin Kersting)

Is It Cold Outside? Garden Installs Weather Station

The Garden installed a remote automated weather station (RAWS) to collect data such as temperature and soil moisture that will help a variety of departments, particularly Horticulture. "In horticulture, it's the number one question we ask ourselves every day," said Jim Cocos, senior manager of Horticulture at the Garden. "What's the temperature outside?" The data will be digitally archived and will help guide living collections' management decisions, assess the effects of pollution and climate change on the Garden's plant collections, and determine the best plant protection strategies under extreme weather conditions.

The Garden's RAWS was made possible through a generous donation by Mr. and Mrs. John McPheeters and in partnership with the Missouri Department of Conservation (MDC). The MDC uses this type of station to monitor and fight forest fires. There are eight stations like this one in Missouri operated by the MDC and seven similar ones operated either by the USDA Forest Service or the USDI National Park Service. "This will be the only one like this in the St. Louis area," said Josh Shroyer, regional RAWS coordinator at the MDC. "This station, located where it is, will help fill in some holes in fire weather coverage for the eastern part of the state."

The weather station is located in the Kemper Center for Home Gardening's Experimental Garden. The site offers good exposure and will allow the station to serve as an education tool, Cocos said. It will also send data every day to a NOAA Geostationary Operational Environmental Satellite (GOES) to contribute to the national weather database. The collected data includes:

- temperature
- solar radiation
- humidity
- photosynthetic active light levels
- precipitation
- wind speed
- wind direction
- soil moisture
- snow depth
- moisture level of "vegetative fuel" (needed by the MDC to monitor and fight forest fires)

MISSOURI BOTANICAL GARDEN
LANTERN 2012 FESTIVAL
燈會
ART BY DAY, MAGIC BY NIGHT

FUN FACTS

Take a look at some of the numbers behind one of the summer's most popular events in St. Louis.

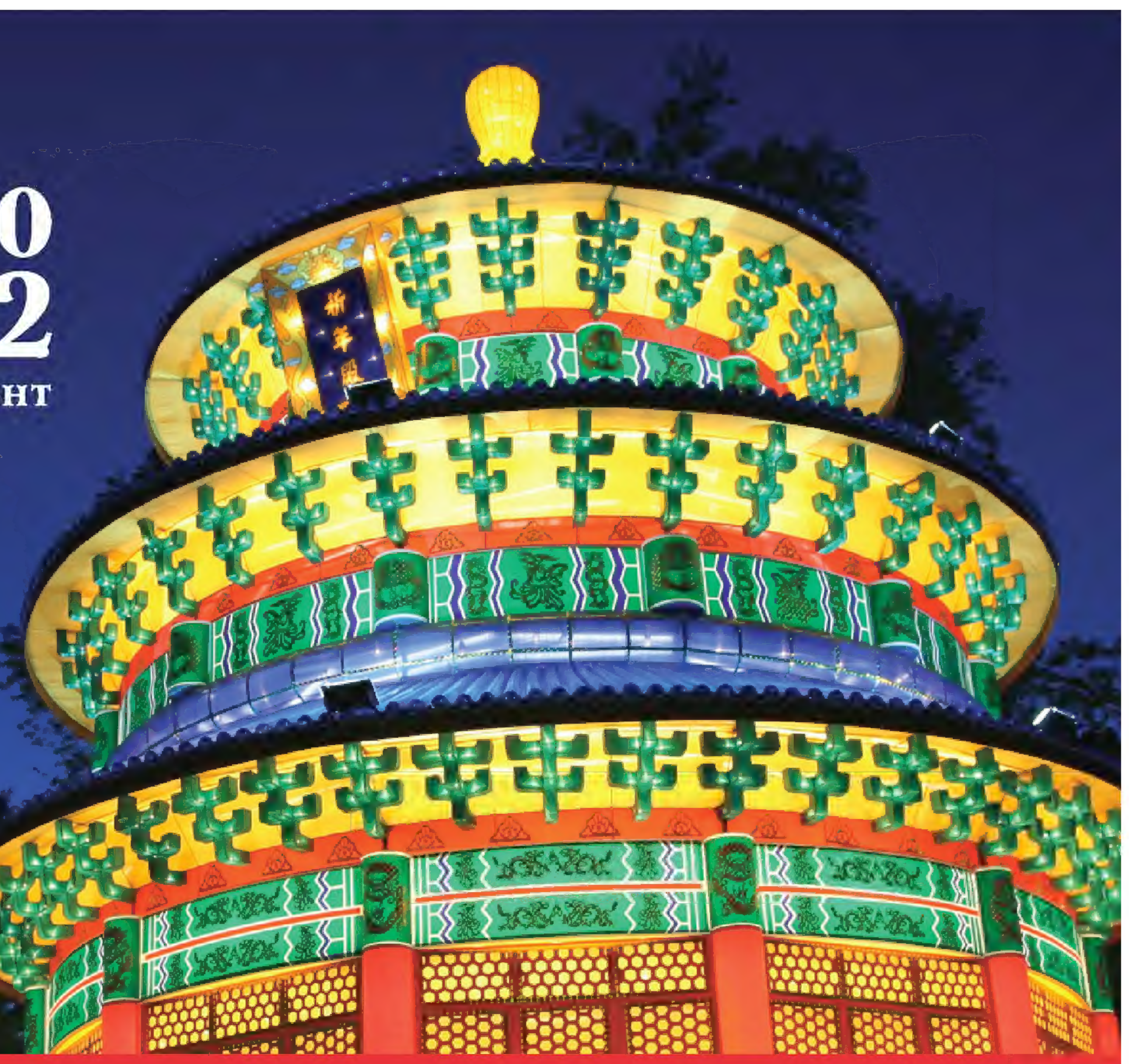


photo by Heather Marie Osborn

358,199	Total people who attended the festival
138,129	Member visits to the festival
5,271	New members who joined during the festival
3,692	Average number of visitors per night

Pounds (lbs.) of scrap metal recycled	43,860
Pounds (lbs.) of electrical wiring recycled	2,740
Pounds (lbs.) of silk repurposed or recycled	1,500
Festival by-products reused, repurposed, or recycled	90%

Lanterns: Where are they now? Share a photo of your lantern on our **Flickr "Your Lanterns" album** and see where others are too.

From the President's Kitchen: Biodiversity Cake

This holiday season, I'd like to share an old family recipe; a fruitcake recipe that my grandmother made from the early 1900s. I try to highlight the fact that it is a representation of the wealth of plant life that provides us with wonderful resources for food. This 'Biodiversity Cake' includes ingredients from as many as 18 different plant species from all parts of the world. When we enjoy a slice of rich fruitcake, we should remember how the Plant Kingdom provides us with a remarkable range of products, which we can combine in ingenious ways to produce delicious foods!

Ingredients:

1 roll of brown paper or parchment paper

3 sticks	butter
1½ cup (12 oz.)	self-rising flour
2 tsp.	mixed spice
1 tsp.	ground nutmeg
1 tsp.	cinnamon
2¾ cups (1 lb.)	currants
2¾ cups (1 lb.)	raisins
2¾ cups (1 lb.)	sultanas
1 cup (8 oz.)	glacé cherries, chopped
½ cup (4.5 oz.)	blanched almonds, chopped
½ cup (4.5 oz.)	ground almonds
1 cup (8 oz.)	mixed peel
1⅓ cups (10.5 oz.)	dark brown sugar

1 lemon, rind and juice

8–9 large eggs

1 tsp.	molasses or black treacle
8 Tbsp.	Irish whiskey

Directions:

Pre-heat the oven to 300°F. Line a 10-inch round cake tin with a double layer of greaseproof paper or brush with melted butter. Tie a double layer of brown paper or parchment paper around the outside of the tin.

photo by Kevin Kersting

Sift all the dry ingredients into a large mixing bowl. Mix in the fruit, nuts, and peel. In a separate bowl, cream the butter, sugar, and grated lemon rind until fluffy. Beat in the eight eggs one at a time; add an extra one if you think the mixture needs it.

Stir the egg and butter mixture into the flour and fruit mixture and add in the lemon juice. Add in four tablespoons of the whiskey and the molasses. The mixture should be soft and moist.

Spoon the cake mixture into the prepared tin. Level the top and bake the cake in the pre-heated oven for 1½ hours. Then reduce the heat to 250°F and bake for another 3 to 3½ hours. The cake is cooked when it starts to shrink from the sides. Check if a skewer inserted into the middle comes out clean too. Cover the cake with brown paper during the last few hours to prevent it burning.

Remove from the oven and leave to cool a bit before turning out onto a rack. When it is completely cool, wrap in aluminum foil. After about a week, make a few holes in it with a skewer and pour over the whiskey. Re-wrap. The cake can be iced with almond paste and icing for the holidays too.

Cooking Video: Biodiversity Cake

Check out the video for this recipe on our **YouTube channel** featuring Dr. Wyse Jackson and hear more from him about the connection between plants and food.

What's on the menu? Join the Garden and its family of attractions for more activities, classes, and events celebrating the wonderful world of food in 2013. Look for more recipes, articles, and a special section on growing your own edible garden in the next *Bulletin*.

Measure Twice

The Team Behind the Garden's Annual Flower Shows

Jim Tuxbury and Paul Feldker, part of the Garden's floral display team, work throughout the year building the shows' props. (photo by Christopher Gibbons)

Gardenland Express

Sponsorship support by Central States Coca-Cola Bottling Company and CBIZ & Mayer Hoffman McCann P.C.

Through January 1, 2013

The annual holiday flower and train show features G-scale model trains traveling through a miniature landscape of living plants. Garden admission plus $5; free for members.

Orchid Show

Presented by BMO Harris Bank.

February 2 through March 31

With more than 500 blooming orchids, the Orchid Show is the only time of year when a vast, rotating selection of orchids from the Garden's historic collection is available for public viewing. Garden admission plus $5; free for members.

The excitement surrounding the holiday season is almost palpable at the Garden. There is no better example than the annual tradition of the aromatic and colorful plants that fill the 5,000-square-foot Orthwein Floral Display Hall, and the unmistakable sound coming from the train tracks.

The 2012 Gardenland Express Holiday Flower and Train Show is now open, and thousands of visitors mark the beginning of the holidays with a trip to one of the Garden's signature events. They later bid winter farewell with the annual Orchid Show. If you ask Supervisor of Floral Display Pat Scace though, the holidays started back in February, and New Year's resolutions are already in the works for next year's shows. "Conceptually, [the shows] are in the hopper for about three years, but they're not definite," she said. "While the Orchid Show is in, we're picking the color palette, the cultivars, the numbers, and the finished heights and sizes of plant material for the production greenhouses."

Having previously worked as exhibit designer assistant at the Garden from 1990 to 1995, Scace has overseen the two flower shows for the past seven years. She and her team of year-round, seasonal, and special-project volunteers work on every aspect surrounding the shows including coordinating plant lists with the Horticulture Division, building props, and setting up the trains according to that year's theme.

Picking the theme is an essential part of the production process. The story is developed based on current events or the Garden's celebrations and yearlong topic. Similar to how this year's Orchid Show honored the Garden's Year of China, the 2012 Gardenland Express will include floral silk sculptures made by the same artists who worked on this summer's Lantern Festival. The 2013 Orchid Show will recognize the Garden's anniversary celebration of its Madagascar program (see page 10). "It's about connecting plants in our life with the theme," Scace said. Once the theme is chosen, the team can start putting together all the pieces that will make up two of the most beloved events at the Garden.

Keeping the Tradition

Flower shows have been a Garden tradition for more than a century. The trains were added to the holiday show almost 10 years ago, and it became Gardenland Express. The Garden owns the permanent LGB model train collection, and Greg Krekeler–retired owner of Hobby Station in Kirkwood–assists with the installation and maintenance. During both shows, the crew works from 7 to 9 a.m. every day watering, deadheading, replacing, pruning, and vacuuming water to maintain the displays and prepare for that day's guests.

It takes one month to set up each show, so Scace's installation team ("I-Team") puts together Gardenland Express in mid-October. After the holiday show closes in January, the team immediately starts to assemble the Orchid Show. They work on both flower shows simultaneously throughout the year, but that doesn't mean that they are developed the same way. Their different floor plans and props depend on details such as the trains, water features, and seasonal plants. All the plant material for the holiday show is grown at the Garden's greenhouses, while the Orchid Show uses a combination of the Garden's permanent collection of 7,000 orchids and other tropical plants. Scace's background in landscape architecture and floral design allows her to adapt to last-minute changes that affect the color story and overall scene. She also makes sure the semi-permanent construction can be re-worked and re-used in the future.

It's been almost a year of sketching, building, planting, and decorating. The tradition continues with this year's Gardenland Express celebrating "Merry Botanical Traditions" and the 2013 Orchid Show featuring Madagascar. Kick off the holiday season with the festive mix of blooming plants and a variety of trains that will delight everyone in the family. Once the holiday decorations are put away and New Year's resolutions are set, let the vibrant colors, tropical scents, and authentic Malagasy artifacts take you on an exciting journey across the world to Africa.

(Top) David Schmidt, Floral Display Assistant, puts the final touches on one of the props from this year's Gardenland Express. (Bottom) As Supervisor of Floral Display, Pat Scace oversees everything from floor plans to plant selection. (photos by Kevin Kersting)

Conservation Entrepreneurs

Ian Smith, a Washington University student, traveled to Madagascar this summer to collaborate with the Garden and the local community on projects developed in class. (photo by Anne Dohmen)

Ian Smith and Anne Dohmen had a plan to improve soil fertilization and public health when they landed in Madagascar this summer. Dohmen, a senior studying Systems and Electrical Engineering at Washington University in St. Louis, had seen the deficient soil during her first trip to the island nation in 2011. However, her idea to set up a latrine system that would provide fertilizing compost and prevent diseases changed as soon as they arrived.

Financial and cultural issues prevented the local community from embracing Dohmen's project. So, she and Smith, majoring in Global Leadership and Management, adapted an existing water-purifying biosand filter to make it affordable, paired it with a hand-washing station, and offered both with the latrines as a package. When they left, they saw how other villages they had never visited had adopted their three-part hygiene system.

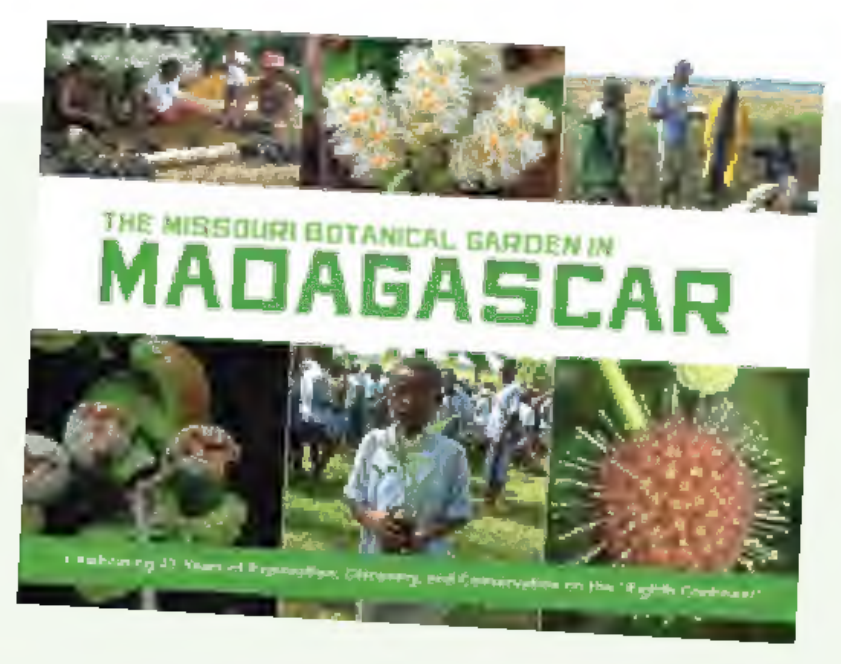
The Garden's Madagascar Research and Conservation Program has partnered with Washington University's Skandalaris Center for Entrepreneurial Studies since 2007 thanks to Dr. Armand Randrianasolo, curator at the Garden's William Brown Center. Every spring the Skandalaris Center offers a multi-disciplinary class, *Community Development & Environmental Preservation Through Entrepreneurial Collaboration*, focusing on the Garden's community-based conservation efforts in Madagascar. Students get valuable hands–on experience in a developing country.

As they learn about politics, economic growth, and conservation, students use expert lectures, case studies, and workshops as tools to develop their ideas. In the summer, the students fly to Madagascar and work on their project for three weeks. "It's certainly a life-changing experience for our students," said Ken A. Harrington, managing director at the Skandalaris Center. "It also adds to our collective knowledge of how we can do things better." Both he and Professor Judi McLean Parks have taught the course since it started.

The lessons extend beyond their academic careers, and in Madagascar the students learn a broader definition of "entrepreneurship." "The site-based managers, our facilitators, are entrepreneurs at the interface between community development and improving the livelihood for rural people in Madagascar, and preserving natural resources," said Dr. Pete Lowry, head of the Africa and Madagascar Department at the Garden.

The partnership between Washington University and the Garden is unique. It requires a high level of trust between the staff and the local community and that, Smith said, makes the difference. "[That trust] was the thing that allowed us to be successful," he said. This integration helps further the Garden's mission while giving students incomparable first-hand experiences. "Having [the students] understand the realities of sustainable development and the balance between economic development and the protection of biodiversity is an extremely important lesson," Dr. Lowry said.

The Missouri Botanical Garden In Madagascar:
Celebrating 25 Years of Exploration, Discovery, and Conservation on the "Eighth Continent"
By Liz Fathman | February 2013



Butterfly House

The Ruby Lacewing (*Cethosia biblis*) brings jewel-toned colors to the winter-white conservatory in this year's Winter Jewels: A Holiday Celebration. (photo by Chris Hartley)

Dressing Up The Winter Skies

It may be the latest trend on the runway, but jewel tones have always made a stunning appearance in nature. Imagine the winter sky and a snow-covered landscape sprinkled with color specs. Like a house that has colorful holiday lights in a sea of buildings decorated with white lights, they bring a sense of joy and optimism to a gloomy winter day. A closer look reveals that these flying jewels are not lights but beautiful butterflies.

This year the Butterfly House is hosting Winter Jewels: A Holiday Celebration. Hundreds of additional butterflies will be released in the conservatory during the event, creating a festive atmosphere fit for the holidays. It will be hard to take your eyes off the Ruby Lacewings, Emerald Peacocks, and the sapphire-winged Ulysses as they fly alongside the 1,500 existing butterflies in a perfect dance of color.

Several white plants have been added to create a wintery backdrop for the butterflies including silver mound (*Lantana camara*), cat's whiskers (*Orthosiphon stamineus*), and white Egyptian star flower (*Pentas lanceolata*). They enhance the splash of color and the winter scene that make this a memorable holiday celebration.

The Butterfly House will also dress up for the occasion by adorning the Exhibit Hall with holiday lights and decorations for the first time. The Madame Butterfly Gift Shop will also have holiday ornaments and jewelry–perfect to check everyone off your shopping list. During the event, children can enjoy weekend craft activities making holiday ornaments and gifts. They can also get a photo with Santa on Saturdays, Sundays, and Christmas week, or have dinner with him the first three Sundays of December during Supper with Santa. For more information about Winter Jewels: A Holiday Celebration and Supper with Santa, visit **www.butterflyhouse.org**.

Winter Jewels
A HOLIDAY CELEBRATION

Through December 30,
9 a.m. to 4 p.m.,
closed Mondays and
Christmas Day

Stop by on Saturdays and Sundays throughout the celebration for photobooth fun, a visit from Santa, and craft activities for children ages 2 to 12. Included with Butterfly House admission.

ATTENTION

The Butterfly House will be closed from Jan. 1 to Jan. 25 for renovations. Come visit us Jan. 26 for Hot! Hot! Hot! (see Events page 18).

Shaw Nature Reserve

The Shaw Nature Reserve transforms into a hiker's winter paradise when the sun goes down, setting the stage for an unforgettable evening. (photo by Heather Marie Osborn)

Love (Of Nature) Is In The Air

Valentine's Night Hike

Saturday, February 16,
7 to 10 p.m.,
Shaw Nature Reserve

Admission (per person): $24 Garden members and Reserve passholders; $29 nonmembers 21 and older. Registration ends February 10 at 5 p.m. Advance registration required. Information and registration: **www.mobot.org/classes** or call (314) 577-5140.

Everyone's been there: the text message alert or the TV in the background makes you forget why you walked to the kitchen in the first place. It's hard to find the time to step back and appreciate the sound of trees moving with the wind or the stars' twinkle in the middle of the night.

This Valentine's Day, take the opportunity to escape the everyday world for a few hours and share an evening with a loved one at the Shaw Nature Reserve's Valentine's Night Hike. Ditch the last-minute restaurant reservations and bring your best friend, sweetheart, or favorite aunt to enjoy a night of beautiful sights and sounds and delicious sweets.

Start the evening with a hot beverage and relax before heading outside into the crisp winter night. The event is perfect for those who love the outdoors and have a sweet tooth. Take a one-hour hike and let one of the team leaders guide you as you explore the beautiful Reserve at night, and listen for any owls that might be calling.

Once you make your way back to the Dana Brown Overnight Center, warm up next to the campfire or go inside and enjoy hot chocolate or coffee and dessert. Gaze at the stars with the telescope and enjoy decadent lavender cookies, cheesecake, fruit tortes, and petite fours homemade by the Reserve's staff and volunteers.

Very few things compare to the comfort and peace that come from sitting in front of a roaring fire in good company with a cup of hot chocolate. The Valentine's Night Hike gives you just that. A few cookies and pieces of candy later, you will have shared an unforgettable evening with those you love and be ready to tackle the world once again.

Tributes

July through September 2012

A tribute gift to the Garden is a wonderful way to honor family and friends. Tributes of $25 or more are listed in the *Bulletin*. If you have questions regarding giving opportunities at the Garden, please call (314) 577-0805. You can also make a tribute gift online at our website, **www.mobot.org**.

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photo by Heather Marie Osborn

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Give To The

Henry Shaw Fund

Your Garden membership supports a historic and beloved cultural center with a world-changing scientific mission. You make a difference. The Garden invites you to make an even greater difference by contributing to the 2012 annual appeal.

With your support, we can:

For $75

- Create and maintain two hanging baskets.
- Fund a student scholarship for an overnight program at Shaw Nature Reserve.
- Provide a local teacher a science curriculum kit and other teaching tools.

For $100

- Purchase 120 spring bulbs.
- Purchase 50 tropical butterfly pupae for the Sophia M. Sachs Butterfly House.
- Equip a horticulturist with essential tools.

For $250

- Help a Yanesha woman in Peru establish a vegetable garden for her household.
- Provide care for a rare and endangered plant in the Garden's living collection.
- Purchase a model train for the annual Holiday Flower & Train Show.

Ways to give:

Send a check using the enclosed tribute envelope, visit **www.mobot.org/henryshawfund,** or call (314) 577-5118.

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photo by Erin Whitson

Members' Entry Court

Bricks dedicated at the Garden, July through September 2012. Engraved bricks are a wonderful way to commemorate any special occasion, as well as final memorials. For additional information regarding the Garden's brick program, please contact the Institutional Advancement Office at (314) 577-0291 or visit **www.mobot.org**.

Signature Bronze Bricks

Alicia Marie Brauer
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Grammy, Grandpa, Uncle Tyson, Jamie, Great Grandma, and Great Aunt Becky

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Dr. Clyde and Ginny Wieland
Dr. and Mrs. Clyde L. Wieland

Sophia M. Sachs Butterfly House Tributes & Pavers

Tributes and Pavers dedicated at the Butterfly House, July through September 2012. To learn more about these opportunities, call (314) 577-0291 or visit **www.butterflyhouse.org**.

Tributes

In Memory of

Barb McCoy
Terry Miller

Mrs. Phyllis Whisnant
Ms. Marvel Kendall and Ms. Irene Wayland

Pavers

Jean Behrle
Ron, Keith, and Tracy Behrle

William Breece
Mr. and Mrs. Douglas Adams

Audrey L. Daniel
Audrey's 9 Children

Mildred Daniel
Ms. Debra Sholes and Mr. Stephen Haberstroh

Betty L. "Nana" Sundhausen
Sundhausen Family

Dee Webster
Mr. James N. Webster

Seen at the Garden

Herbalooza

September 6, 2012

This year's sold-out event drew more than 300 people for an evening with the St. Louis Herb Society. Guests also enjoyed special tours of Tower Grove House and the Museum Building.

(photos by Mary Lou Olson)

Fest-of-Ale

October 19, 2012

The Young Friends of the Missouri Botanical Garden hosted over 900 people for their annual event featuring local brews, appetizers, live music, and live brewing demonstrations.

(photos by Mary Lou Olson)

President's Society Evening

September 18, 2012

More than 100 guests enjoyed tours of the Museum Building and Tower Grove House and an appearance by an actor portraying Henry Shaw.

(photos by Mary Lou Olson)

Dr. Peter Wyse Jackson and Sheila Hoffmeister

Marie Schmitz, Kathy Lupo, Mary Jane Kirtz, "Henry Shaw," Venerable Mark Sluss, and Todd Eller

Glenda and Bill Finnie

Steve Maritz and Dr. Peter Wyse Jackson

George and Kathryn Love and Rebecca and John Reeve

Henry Shaw Dinner

September 20, 2012

More than 200 people attended the annual recognition event at which Garden President Dr. Peter Wyse Jackson spoke about the success of the Lantern Festival, the Garden's plant science work in China, and the accomplishments in horticultural excellence and education.

(photos by Josh Monken)

Lotsie and Rick Holton and Mabel Purkerson

Linda and Bill Finerty

Phil and Sima Needleman

Bill and Marsha Rusnack and Thad and Betty Simons

Pat Forni and Don Ross

Events

Victorian Christmas at Tower Grove House

Through December 30
See the Victorian country home of Garden founder Henry Shaw decked for the holidays in true Victorian style. Enjoy storytelling on Saturdays at 11 a.m., and special activities for children! Included with Garden admission. Open Wednesday through Sunday, 10 a.m. to 4 p.m.; closed Mondays and Tuesdays.

Gardenland Express "Merry Botanical Traditions"

Through January 1
See page 8 for more information. Garden admission plus $5; free for members.

Holiday Wreath Auction

Through January 2, Monsanto Hall, Ridgway Visitor Center
Exhibit features unique creations by some of the area's finest floral designers. All wreaths are sold by silent auction bidding, with proceeds benefiting the Missouri Botanical Garden. Closes early at 4 p.m. on Christmas Eve; closed Christmas Day.

"Plants and People: China" Interactive Exhibit

Through January 1, Brookings Interpretive Center
Visitors of all ages are invited to explore the wonders of China. Enjoy interactive displays, puppets, games, books, and more as you discover the important role China's plants and ecosystems play in people's lives. Learn about Chinese medicine, food, clothing, shelter, and transportation methods derived from plants. Experience Chinese art, literature, and symbolism—all cultural aspects influenced by nature. Included with Garden admission.

Holiday Trimmings

December 1 through 31, Kemper Center
Enjoy a 12-foot balsam fir tree naturally decorated with hand-crafted "gourdaments" that will be sold on January 1 to benefit the Kemper Center. Closes early at 4 p.m. on Christmas Eve and New Year's Eve; closed Christmas Day. Included with Garden admission.

Saturdays with Santa: Christmas Carols in the Garden

Saturdays, December 8 and 15, 1 to 4 p.m., Ridgway Visitor Center, Spink Pavilion
Whisper your Christmas wishes to Santa Claus and listen to festive holiday carols. Included with Garden admission. Admission to the Gardenland Express holiday flower and train show is an additional $5; free for members.

Chanukah: Festival of Lights

Sunday, December 9, Noon to 4 p.m., Ridgway Visitor Center
A traditional Jewish holiday celebration including Israeli music and dance, a menorah-lighting ceremony, and Chanukah merchandise provided by local vendors and the Garden Gate Shop. Included with Garden admission.

Kwanzaa: Festival of the First Fruits

Friday, December 28, Noon to 4 p.m., Ridgway Visitor Center
Kwanzaa is a Swahili term that means "first fruits." This contemporary African-American holiday centers around the feast table of the harvest and highlights a day of storytelling, craft and jewelry displays, and authentic African drumming and musical performances. Included with Garden admission.

Hot! Hot! Hot!

January 26 and 27, 11 a.m. to 2 p.m., Butterfly House
Shake off the cold weather blues and join in fun, tropical-themed, kid-friendly activities, games, and crafts. Enjoy live steel drum music, a toddler sandbox, and face painting. For children ages 3 to 8 with their families. Included with Butterfly House admission.

Presented by Scottrade.

gift of the GARDEN

Finish off your holiday shopping list!
Save 20% on Garden, Garden Plus, and Family-level gift memberships! Visit the Membership Services Desk between 9 a.m. and 5 p.m. Wednesday, Dec. 5 through Sunday, Dec. 9. *(Discounts apply to on-site sales only.)*

Trivia Night—Garden Style

Saturday, February 16, doors open at 6 p.m., questions start at 7 p.m., Ridgway Visitor Center

Show how smart you are at the fifth annual Young Friends' Trivia Night—Garden Style. Tables are $300 and seat 10. Complimentary beer provided by Schlafly. Silent auction, 50/50 raffle, and attendance prizes. Reservations required: **www.mobot.org/events** or (314) 577-9570.

The Great Backyard Bird Hunt

Sunday, February 17, 1 to 3 p.m., Shaw Nature Reserve

Learn about the Great Backyard Bird Count (GBBC), a citizen science project documenting where birds are across the continent. Bird identification and outdoor bird hikes offered too. For families with kids ages 8 and up. Included with Shaw Nature Reserve admission. Advance registration required: (314) 577-5140 or **www.mobot.org/classes**.

Madagascar Celebration

Saturday, February 23, Ridgway Visitor Center

Join the Garden as it celebrates the 25th anniversary of its Madagascar program. Enjoy special activities, food, lectures, and much more. Visit **www.mobot.org** for more information. Admission to the Orchid Show is an additional $5; free for members.

Orchid Show "Madagascar"

February 2 through March 31

See page 8 for more information. Garden admission plus $5; free for Garden members.

Presented by BMO Harris Bank.

photos by Charles Schmidt and Mary Lou Olson

Valentine's Dinner Evening

Saturday, February 9, 6 to 10 p.m., Monsanto Hall, Ridgway Visitor Center

Celebrate romance with great food, live music, and dancing at the lovely Garden. Tickets are $75 per person for members and $85 per person for nonmembers. Cash bar available. Reservations required: **www.mobot.org/events** or (314) 577-9570.

JUST FOR MEMBERS

Breakfast with Santa

Saturday, December 1, 8 to 10:30 a.m., Monsanto Hall, Ridgway Visitor Center

Visit Santa as he makes his yearly stop at the Garden for this members-only holiday breakfast. Tickets are $20 for adults and $15 for children ages 3 to 12; children younger than 3 are free. Seating is limited, and event reaches capacity quickly. Reserve your space at **www.mobot.org/events**.

If you do not have internet access, call (314) 577-9570.

2013 Orchid Show Preview

Friday, February 1, 5 to 8 p.m., Orthwein Floral Display Hall

This special night includes members-only viewing of the 2013 Orchid Show with more than 500 blooming orchids in a lush, tropical landscape. The evening also features savings on items in the Garden Gate Shop, cash bar, and a special dinner menu in Sassafras. Admission is free.

Conservation Club: Plant Conservation In Madagascar

Saturday, February 23, 9:30 a.m., Spink Gallery on the upper level of Ridgway Visitor Center

Join Dr. Pete Lowry for coffee and conversation preceding his public lecture in Shoenberg Theater. Lowry, who leads the Garden's plant science and conservation program in Madagascar, will describe the environmental challenges and highlight the Garden's success in its 25 years on this fascinating island. Reservations required: **christine.brew@mobot.org**.

Members' Day: Vegetable Gardening with Chip Tynan

Tuesday, February 26, 11 a.m., Shoenberg Theater

Get expert advice on creating an abundant vegetable garden. Reservations required: **www.mobot.org/events** or (314) 577-9570.

December 2012

average temperature: low 28°, high 43°
average precipitation: 3 in.

What's in bloom?

eulalia

camellia

tree datura

poinsettia

holly

KEY (All events take place at the Garden unless otherwise noted.)

BH	Butterfly House
CA	Cohen Amphitheater
CBEC	Commerce Bank Center for Science Education
CHD	Children's Garden
CL	Climatron lawn
GGS	Garden Gate Shop
JE	Jordan Education Wing in the Visitor Center
KC	Kemper Center for Home Gardening
LS	Little Shop Around The Corner
MB	Madame Butterfly Gift Shop
MC	Monsanto Center
MH	Monsanto Hall in Ridgway Visitor Center
RVC	Ridgway Visitor Center
SNR	Shaw Nature Reserve
SP	Spink Pavilion
ST	Shoenberg Theater in Ridgway Visitor Center
🌿	Sassafras
❀	Members-only event
☎	Reservations required
$	Fee required

Gardenland Express
Holiday Flower & Train Show
Nov. 21 through Jan. 1, 2013

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
						1 ❀ Breakfast with Santa, 8 to 10:30 a.m. $ MH ■ Victorian Christmas at Tower Grove House, *through Dec. 30.* ■ Winter Jewels, *through Dec. 30.* BH
2 ■ Supper with Santa, 4:30 to 7 p.m. $ ☎ BH	3	4	5 ■ Holiday Wreaths from Natural Materials, 6:30 p.m. $ ☎ SNR **Gift Membership Sale and Members' 20% Off Sale, through Dec. 9 at the shops**	6 ■ Holiday Wreaths from Natural Materials, 6:30 p.m. $ ☎ SNR	7	8 ■ Saturdays with Santa: Christmas Carols in the Garden, 1 to 4 p.m. RVC, SP ■ Bee-autiful Gifts, 2 to 4 p.m. $ ☎ BH
9 **CHANUKAH** ■ Chanukah: Festival of Lights, Noon to 4 p.m. RVC ■ Supper with Santa, 4:30 to 7 p.m. $ ☎ BH	10	11	12	13	14	15 ■ Saturdays with Santa: Christmas Carols in the Garden, 1 to 4 p.m. RVC, SP ■ Great Green Adventures: Bird-Friendly Gardens, 10:30 a.m. and 1:30 p.m. $ CHD
16 ■ Corporate Partners Day ■ Supper with Santa, 4:30 to 7 p.m. $ ☎ BH	17	18	19	20	21 ■ Around the World Wine Dinner: Holidays at the Garden, 6:30 p.m. $ ☎	22
23	24 ■ The Garden closes at 4 p.m.	25 **CHRISTMAS** ■ The Garden and Butterfly House are closed	26 **KWANZAA**	27	28 ■ Kwanzaa: Festival of the First Fruits, Noon to 4 p.m. RVC	29
30	31 **NEW YEAR'S EVE** ■ The Garden closes at 4 p.m.					

photos by Kat Douglas, Jennifer Meinhardt, Christine Siebert, Kimberly Bretz, and Heather Marie Osborn

January 2013

average temperature: low 24°, high 40°
average precipitation: 2.5 in.

What's in bloom?

powder puff

clerodendrum

snowdrop

fig

winter jasmine

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	LITTLE SHOP AROUND THE CORNER ANTIQUES • HOME & GARDEN FURNISHINGS **Closed All Month**	1 Gardenland Express Holiday Flower & Train Show **Last Day** - Butterfly House closed for renovations, *through Jan. 25*	2	3	4 - Basket Making Overnight, 7 p.m. through Sat., Jan. 5 at 3 p.m. $ ☎ SNR	5
6	7 **Garden Gate Shop closed**	8	9	10 - Native Plant School: Control and ID of Common Invasive Plants, 1 to 4 p.m. $ ☎ SNR	11 - Wildlife in Winter Overnight, 7 p.m. through Sat., Jan. 12 at 11 a.m. $ ☎ SNR	12
13	14 **Garden Gate Shop closed**	15	16	17	18	19
20 - Maple Syrup from Tree to Table, 1 to 3 p.m. $ ☎ SNR	21 **MARTIN LUTHER KING, JR. DAY**	22	23	24	25	26 - Hot! Hot! Hot!, 11 a.m. to 2 p.m. BH - Introduction to Herbal Soap Making, 9 a.m. to Noon $ ☎ SNR
27 - Hot! Hot! Hot!, 11 a.m. to 2 p.m. BH	28	29	30	31		

photos by Kyle Spradley, Lisa Francis, Jennifer Meinhardt, and Erin Whitson

February 2013

average temperature: low 28°, high 45°
average precipitation: 2.5 in.

What's in bloom?

Chinese witch hazel

African daisy

paperbrush

red twig dogwood

orchid

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			 Orchid Show Presented by BMO Harris Bank. February 2 through March 31		1 ✿ Orchid Show Preview, 5 to 8 p.m. RVC	2 **GROUNDHOG DAY** ■ Orchid Show opens, *through March 31*, $ RVC ■ It's Your Weekend Overnight, 9 a.m. through Sat., Feb. 3 at 11 a.m. $ ☎ SNR
3	4	5	6 ■ Backyard Adventures: Bugs! Bugs! Bugs!, 9:30 to 11 a.m. $ ☎ BH	7	8	9 ■ Valentine's Dinner Evening, 6 to 10 p.m. $ ☎ RVC
10 **CHINESE NEW YEAR**	11	12	13 **ASH WEDNESDAY**	14 **VALENTINE'S DAY** ■ Native Plant School: Conducting Small Controlled Woodland Prarie Burns, 1 to 4 p.m. $ ☎ SNR	15	16 ■ Trivia Night—Garden Style, 6 p.m. $ ☎ RVC ■ Valentine's Night Hike, 7 to 10 p.m. $ ☎ SNR
17 ■ The Great Backyard Bird Hunt, 1 to 3 p.m. ☎ SNR	18 **PRESIDENTS' DAY**	19	20	21	22	23 ✿ Conservation Club: Plant Conservation In Madagascar, 9:30 a.m. ☎ RVC ■ Madagascar Celebration, RVC
24	25	26 ✿ Members' Day: Vegetable Gardening with Chip Tynan, 11 a.m. ☎ ST	27	28		

photos by Benjamin Saver, Kat Douglas, Lisa Francis, Jennifer Meinhardt,
Caroline Philippone, Kyle Spradley, and Heather Marie Osborn

photo by Kevin Kersting

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The Heart

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December 5–9

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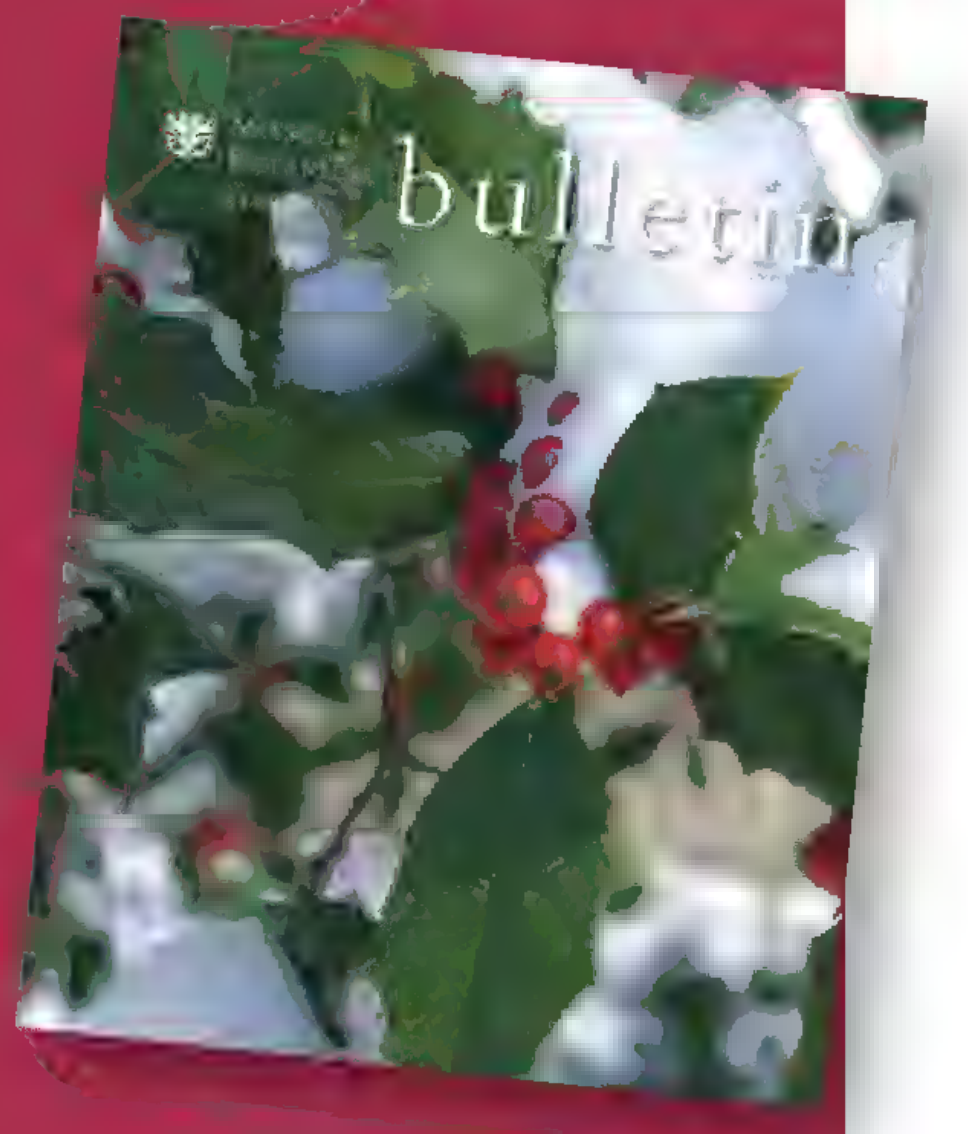

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As a Garden member, did you know that:

- You receive free admission for two adults and all children ages 12 and under to the Shaw Nature Reserve and Sophia M. Sachs Butterfly House?
- You receive free admission to the Children's Garden all day Tuesday (Closed November–March)?
- Special members' days entitle you to exclusive events and activities, as well as free tram rides and discounts in the gift shop and café?
- You get free or reduced-price admission to nearly 270 botanical gardens and arboreta in the U.S. and Canada?

These are only a few of the benefits of membership. If you upgrade your membership, you get even more! Visit us at **www.mobot.org/membership**, e-mail **membership@mobot.org**, or call (314) 577-5118.

Orchid Show

February 2 through March 31

Presented by BMO Harris Bank.

Let authentic artifacts and native orchids from Madagascar transport you to a new world as the Garden celebrates 25 years of research and conservation in the country.

Admission: $5 in addition to Garden admission; free for Garden members

photo by Jennifer Meinhardt

Missouri
Botanical
Garden

bulletin

Spring 2013 Vol. 101, No. 2 www.mobot.org

photo by Koraley Northen

President's Comment

If Irish playwright George Bernard Shaw was right when he said: "There is no love sincerer than the love of food," then this Year of Food at the Missouri Botanical Garden will definitely be one to remember.

If you go to the supermarket, it's not hard to see that it's a biodiversity "hot spot" because, well, all of our food ultimately comes from plants. The shelves are packed with thousands of products derived from plants from all over the world. It is so easy to forget that food is a component of biodiversity and that by protecting biodiversity, we are also protecting food security for ourselves and future generations. Botanical gardens play a major part in raising awareness about the important relationship between biodiversity and food, and it is a responsibility that we proudly accept (see page 8).

While understanding this relationship is vitally important for all of us, it can equally be something that we enjoy and celebrate. For example, if I have a glass of wine, a good dinner, or try out a new recipe, I can give thanks for the wonderful plant diversity that has allowed me to enjoy it so much. Although it's a serious matter—securing our food and biodiversity—it doesn't stop us from having fun as well. Take, for example, the opportunity to add edible touches to your garden and to try new edible plants whenever you get the chance (see page 7).

As a Garden member, you are part of the local and global food story. Your support helps the Garden further its mission to discover and preserve plant life, and it is our hope that this year's **Foodology: Dig In!** will inspire you to eat, grow, talk about, and think of food and plants in new and exciting ways. *Bon appétit!*

Peter Wyse Jackson

Dr. Peter Wyse Jackson,
President

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These are only a few of the benefits of membership. If you upgrade your membership, you get even more! Visit us at **www.mobot.org/membership**, email **membership@mobot.org**, or call (314) 577-5118.

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Garden Hours

The Garden is open 9 a.m. to 5 p.m. every day except Thanksgiving Day, Christmas Eve, and New Year's Eve when it closes early at 4 p.m. Closed on Christmas Day.

Outdoor walking hours begin at 7 a.m. Wednesdays and Saturdays.

General Admission

$8 ($4 for residents of St. Louis City and County); children 12 and under are free. Garden members receive free admission (based on level).

Children's Garden: $5 for children; adults admitted free. ($3 for Garden members' children.) Members' children admitted free on Tuesdays. Open April through October.

Contact

Missouri Botanical Garden
4344 Shaw Blvd., St. Louis, MO 63110
(314) 577-5100 • www.mobot.org

On the Cover:

Cabbage, *Brassica oleracea* 'Savory Perfection'.
Photo by Christopher Gibbons.

Credits

Editor/Designer: Andrea Molina

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photo by Christina Kelley

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> **To discover and share knowledge about plants and their environment in order to preserve and enrich life.**
>
> *– mission of the Missouri Botanical Garden*

News

Board of Trustees Update: New Trustee and Vice Chair

Stephen C. Sachs has been named the newest member of the Garden's Board of Trustees. Sachs is president of Sachs Properties, Inc., a company founded by his father, the late Louis Sachs, who was the visionary behind Chesterfield Village.

Today, Sachs Properties owns and manages one million square feet of office space and 150,000 square feet of retail space, and it owns hundreds of acres in the heart of Chesterfield for future development.

Sachs worked for Sachs Electric and Sachs Properties before serving in the Peace Corps in Kenya. He then managed the business side of Enokiworld.com for several years before becoming president of Sachs Properties in May 2011. He earned his MBA from Washington University in St. Louis and has served on the boards of the St. Louis Symphony Orchestra and Junior Achievement. He now serves as trustee for the St. Louis County Library.

In other board news, Lelia Farr, who has been in a board leadership position in the *Garden for the World…For All Time* campaign (see page 17), was elected as vice chair. She will serve with Cheryl Morley, who will continue in her vice chair position.

From left to right: David Schulz, Janet Hennessey, Ginny McCook, Mary Lee Salzer-Lutz, and Pat Steiner. Not pictured Lynn Koeneman. (photo by Andrea Nickrent)

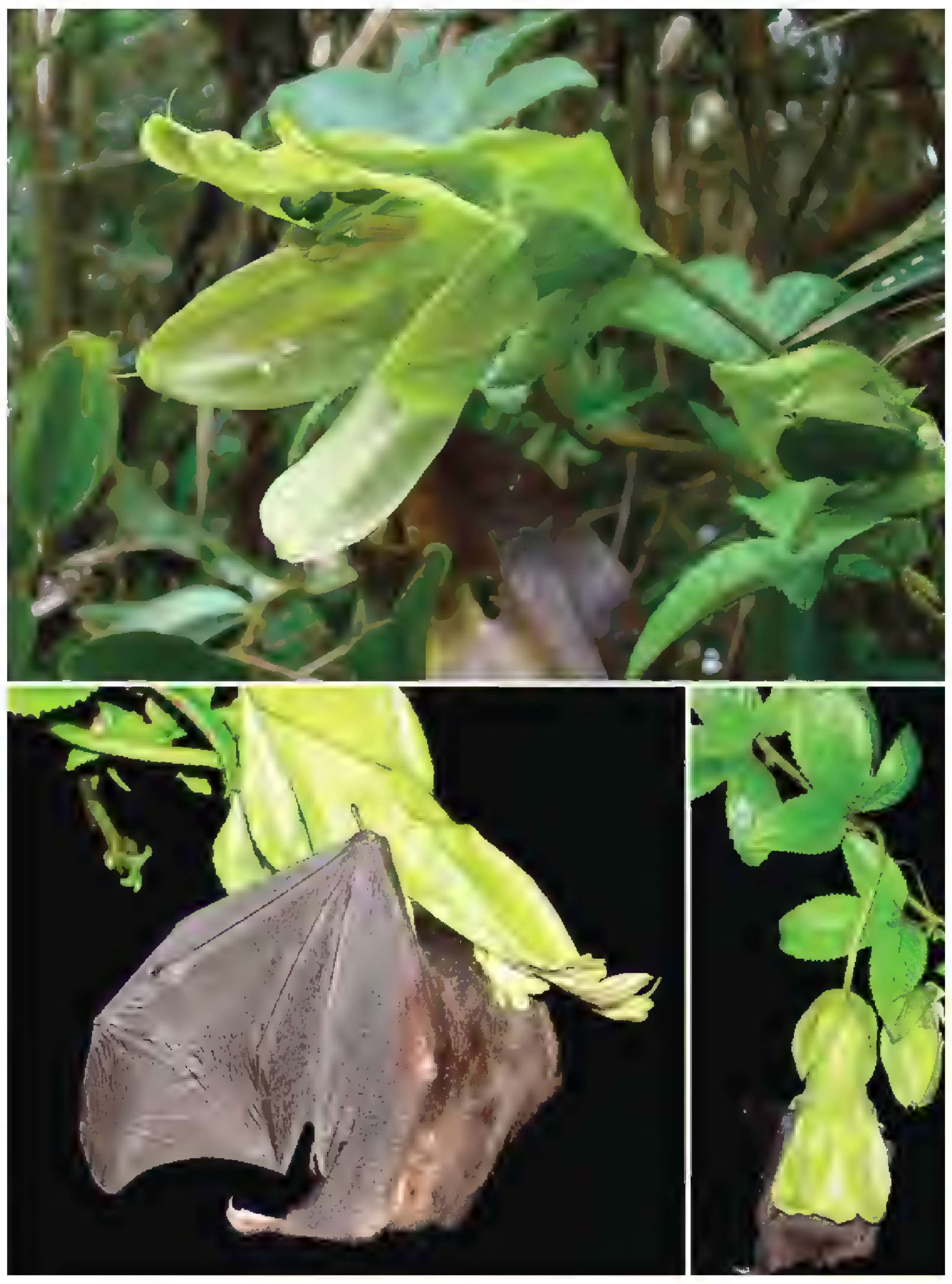
Members' Board Update

In January, the Garden held its annual meeting for the installation of new members and officers to the Members' Board, which assists the Garden in its mission by organizing and implementing activities that encourage membership support, expand awareness, and increase financial support.

New Single-Petal Species Discovered in Ecuador

Botanists at the Missouri Botanical Garden described 131 new plant species in 2012. They were collected through research programs in countries around the world including Ecuador, Madagascar, Bolivia, and China. Among the newly discovered species is *Passiflora unipetala*, described as having yellowish green flowers, being pollinated by bats, and most importantly, having a single petal. This last characteristic had never been recorded in the genus or within the family.

Dr. Peter Jørgensen, curator at the Garden, and co-authors Natha Muchhala and John MacDougal described *Passiflora unipetala* from two forests in Pichincha, Ecuador. "This new species is remarkable in several aspects. Its color show adaptation to bat pollination is an unusual trait, but its pollinator also turns out to be a rather recently described species," Dr. Jørgensen says. "If that was not enough, it has a feature that is not known in any known species of the entire genus: it has only a single petal."



Having a single petal makes *Passiflora unipetala* unique within the genus and family. (photo by Dr. Peter Jørgensen)

Dr. Peter Crane Will Present Ginkgo Lecture

Prof. Sir Peter R. Crane, Dean of the School of Forestry & Environmental Studies and Professor of Botany at Yale University, will present his lecture "Ginkgo: The Plant that Time Forgot" at the Garden on Monday, March 11 at 3 p.m. in Shoenberg Theater. Dr. Crane will discuss the history of the ginkgo, its cultural significance, its medicinal and nutritional value, and its importance as the world's oldest and one of the most recognizable trees. The event is free to the public, and there will be a book signing at the Garden Gate Shop following his lecture for the release of his book of the same name.

Ginkgo
PETER CRANE

Dr. Crane was director of the Royal Botanic Gardens, Kew, one of the top botanical gardens in the world, from 1999 to 2006. His work focuses on the diversity of plant life. He was elected to the Royal Society in 1998 and was knighted in the U.K. for services to horticulture and conservation in 2004. He is a Member Emeritus of the Missouri Botanical Garden's Board of Trustees and serves on the Board of the Global Crop Diversity Trust, the Chicago Botanic Garden, the Lady Bird Johnson Wildflower Center at the University of Texas, and the Gaylord and Dorothy Donnelley Foundation.

Linda Waugh (left) and Sophie Connor (right) are part of the Tuesday morning team helping beginner and experienced gardeners. The Horticulture Answer Service has been helping gardeners for 50 years. (photo by Andrew Dolinky)

Golden Anniversary: Horticulture Answer Service Turns 50

What began as an informal office routine by retired Garden Superintendent George H. Pring in 1963 is now a horticulture program that answers as many as 150 calls a day in the spring from gardeners across the country. The Horticulture Answer Service turns 50 this year. It continues to evolve and keep up with new technologies and new gardening questions but always adheres to its original purpose: to provide help whenever gardeners need it no matter their level of experience.

When Pring moved to Pennsylvania in 1969, retired Garden floriculturist Paul Kohl recruited and mentored seven men from the Richmond Heights Men's Garden Club to assist in answering the calls. The number grew as the interest in gardening increased. In 1977, the first woman to join the Answer Service was Alma Reitz. Today, Chip Tynan supervises 28 volunteers, most of them women, who come to the Garden every weekday morning and answer phone calls and emails. They also provide valuable help in updating and adding information to the Gardening Help section on the Garden's website.

The volunteers have heard it all, but if the answer they're looking for is not in any of the books, magazines, research papers, or websites available to them in the Answer Service office, they can always count on Tynan. His 28 years as the Answer Service supervisor have made him an expert on most gardening questions. "Chip knows everything," says Angie Menard, one of the volunteers. "And he's never ever not willing to help or answer a question."

The Internet's popularity may have slowed things down from 16,000 calls a year in 2008 to 14,000 in 2012, but Glenn Kopp, information services manager at the Garden's Kemper Center for Home Gardening, says both the Garden's website and the Answer Service complement each other. "Certainly there is a lot of information online, and we do a lot in producing information that can be useful too," he says. "But there still is a need for someone to go through the information with them and to clear up some problems that they may have."

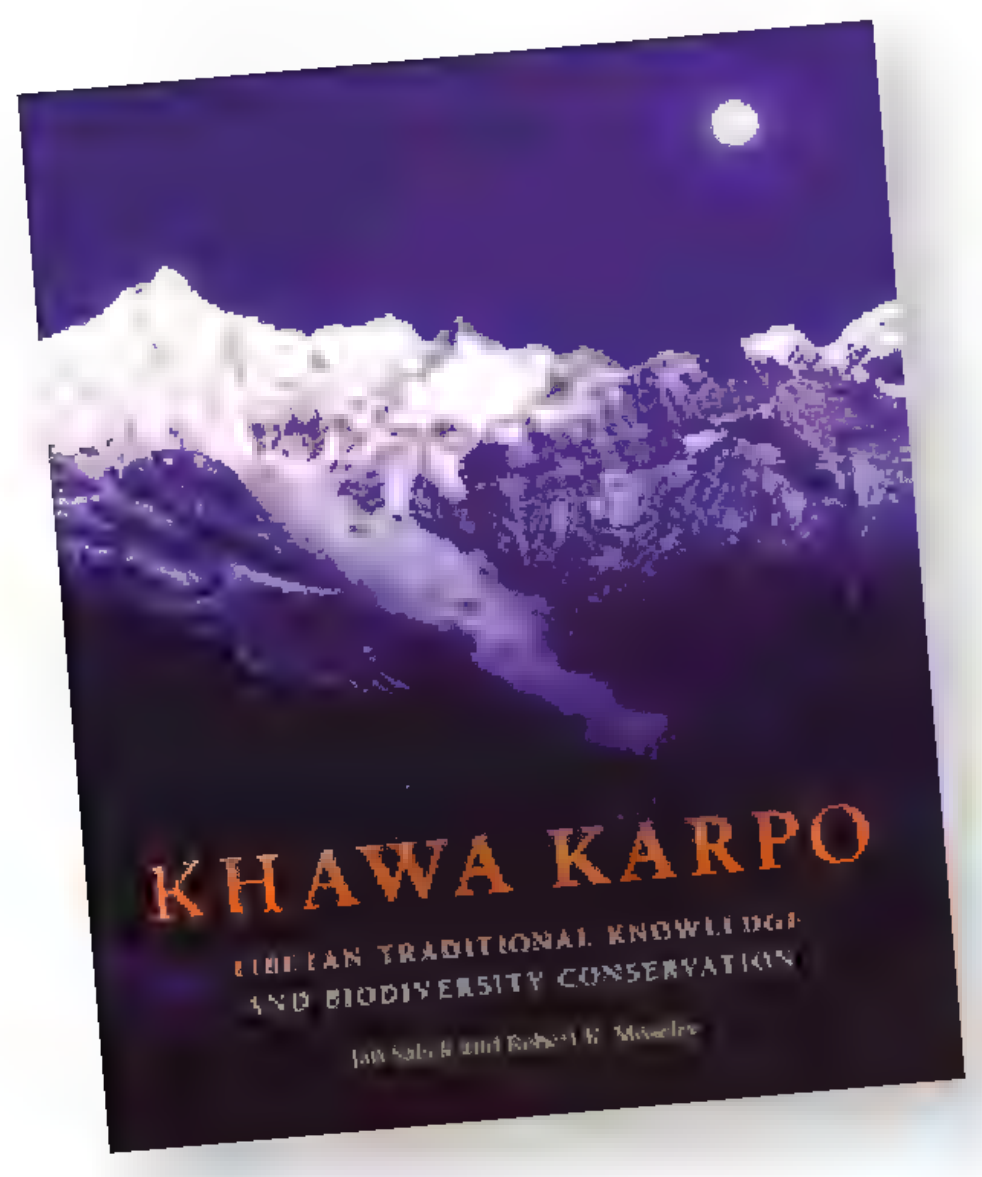
News cont.

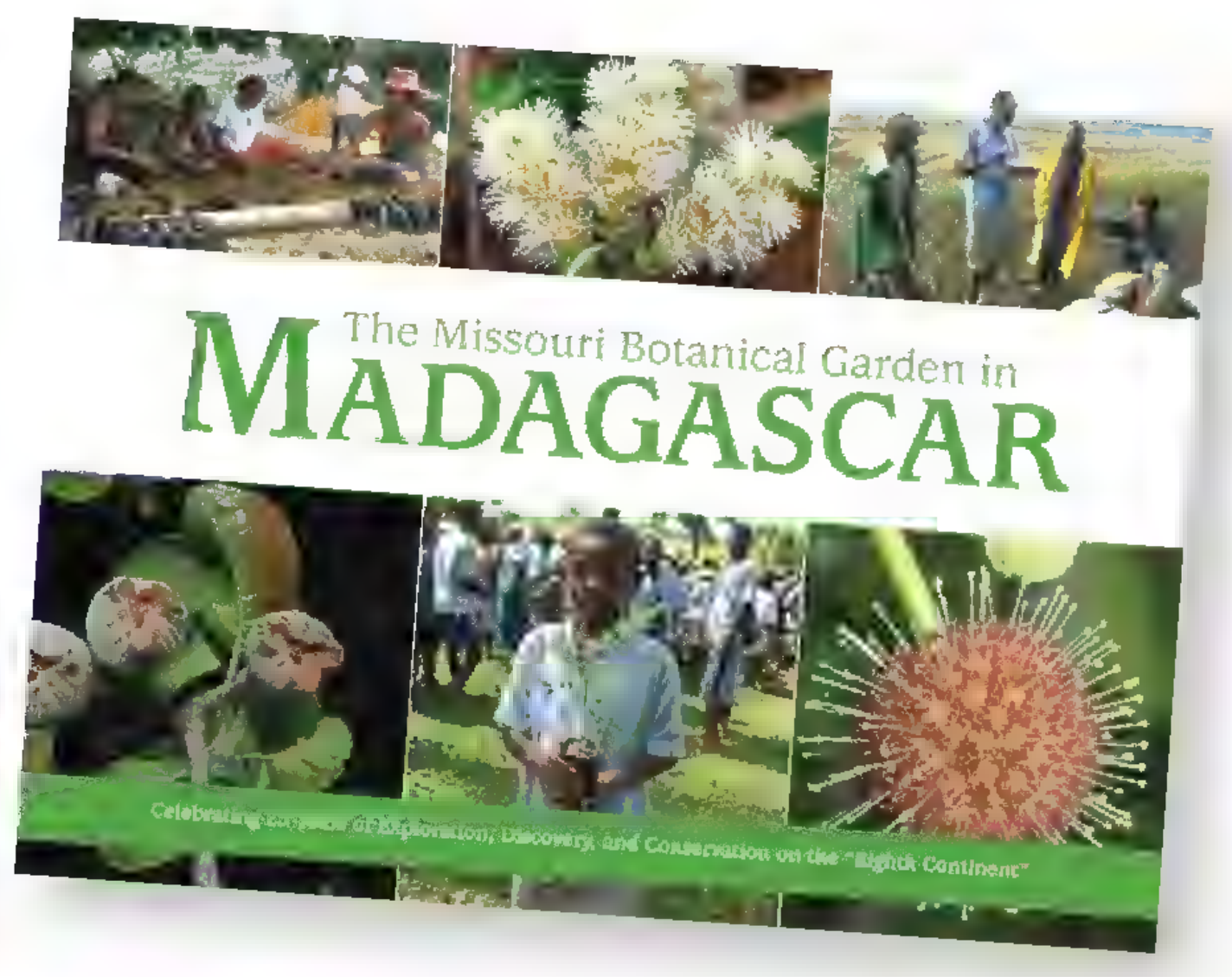
New Community-Based Conservation Books

Two of the Garden's most extensive research programs are now featured in books that highlight years of study in Tibet and Madagascar and their rich biodiversity.

In *Khawa Karpo: Tibetan Traditional Knowledge and Biodiversity Conservation*, authors Dr. Jan Salick and Robert Moseley detail the conservation programs in the Tibetan sacred mountain of *Khawa Karpo*. Dr. Salick, Garden ethnobotanist and climate change scientist, helps lead programs that try to preserve both biodiversity and cultural knowledge in this region. Climate change and rapid development threaten Mount *Khawa Karpo*, an area valued not only for its global ecological significance but also for its religious importance to Tibetan Buddhists.

In *The Missouri Botanical Garden In Madagascar: Celebrating 25 Years of Exploration, Discovery, and Conservation on the "Eighth Continent,"* author Liz Fathman takes the reader on a journey across the island nation and the Garden's 11 conservation sites there, where Garden staff live and work closely with the local population. Despite facing extensive deforestation, Madagascar remains one of the most biodiverse areas in the world.





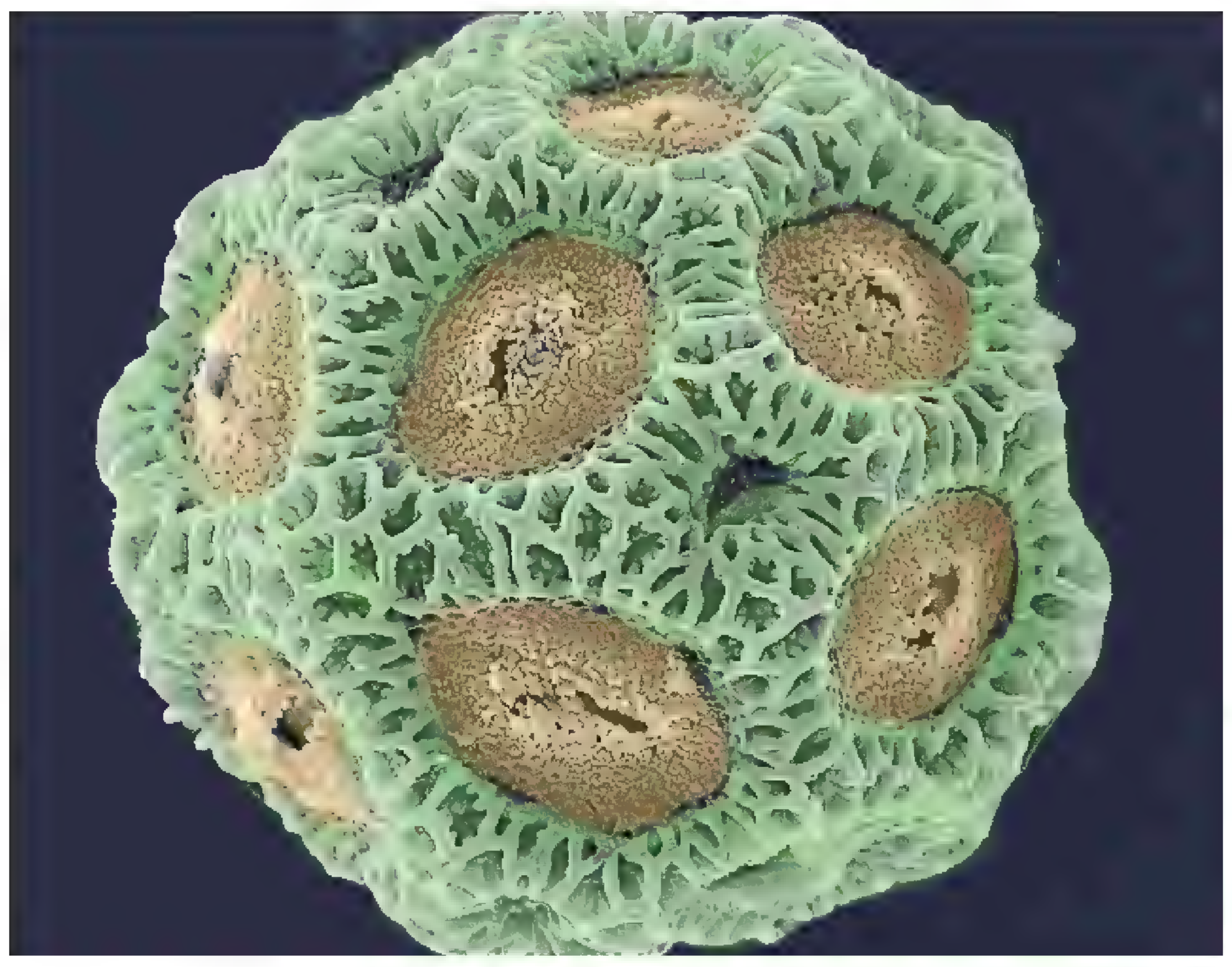
"The staff in Madagascar work to make conservation sustainable by ensuring the villagers near the protected sites have the knowledge and resources to take on conservation for themselves," says Fathman.

In both Tibet and Madagascar, the Garden works closely with local government organizations, education institutions, and on an everyday basis on-site with local people. "Conservation is often done by scientists as a top-down activity, but this book illustrates our efforts to do conservation from the bottom-up," Dr. Salick says. *Khawa Karpo* is available from MBG Press at **orders@mbgpress.info** or (877) 271-1930. *The Missouri Botanical Garden In Madagascar* is available at the Garden Gate Shop.

Garden Scientist Takes on Missouri Pollen Project

Dr. David Bogler, assistant curator at the Garden, plans to describe, illustrate, and make online identification keys to the pollen grains from all the state's plant genera with his Missouri Pollen Project in the next four to five years. He has been interested in Missouri flora for many years, including working at the Missouri Department of Conservation and then at the Garden contributing to the second and third volumes of *Flora of Missouri*.

Dr. Bogler collects, processes, examines, and catalogs the pollen grains throughout the year. In the summer, he oversees 10 undergraduate students in the Garden's Research Experiences for Undergraduates (REU) program. Last year, he and the REU students collected 125 species at Shaw Nature Reserve as part of the program's DNA barcoding project. Those same specimens were used for the pollen project. "Pollen is one of the most indestructible materials in nature, and the most beautiful," he says. "[The project] will be used by anyone who wants to identify an unknown pollen grain—it can be a pollination biologist, a paleo-ecologist, or a forensic scientist."



Opuntia humifusa acetolyzed. (photo by David Bogler)

New Children's Garden Hours Starting this Spring

The family-favorite "destination within a destination" will celebrate its eighth season (see page 18), and these are some admission days and hour changes to keep in mind:

- Open from 9 a.m. to 4 p.m.
- Garden members at the Family level and above will continue to get free admission to the Children's Garden at all times.
- Saturdays from 9 a.m. to noon will continue to be free for St. Louis City and St. Louis County residents and members below Family level.
- Wednesday mornings will no longer be free for city and county residents or Garden members below Family level.
- Pricing will remain the same.
- Tuesdays (all day) will remain free for all Garden members.

FOODOLOGY dig in!

What's on the menu? In 2013 celebrate the Year of Food! Join the Garden and its family of attractions for more activities, classes, and events celebrating the wonderful world of food.

Edible Plant Life List

Birdwatchers have bird lists. Some people have Bucket Lists. Andrew Townesmith, William L. Brown Center's research specialist, however, has an edible plant life list—450 edible plants at press time to be exact. For 10 years he has used *Cornucopia II: A Souce Book of Edible Plants* (approximately 3,000 edible plants listed) and *Food Plants of the World* (approximately 300 edible plants listed) as his checklists. In fact, he's already 72 percent done with the latter. Picky eaters take note: he hasn't turned anything down yet, but the strangest plant he has tried so far is durian, a fruit he describes as "legendary" for its horrific smell—a mix of garlic and sweaty socks. Talk about exploring the food world!

Stinging Nettle Greens

By Andrew Townesmith

photo courtesy of Tessa Curtis

Stinging nettles (*Urtica dioica*) are a classic spring green that not many people have tried. Thorough cooking destroys the stinging properties of the plant and allows you to use them as a delicious green similar to spinach.

Nettles can be found in fairly wet habitats such as river floodplains, and they emerge in early spring. As with any wild plant, be sure you have identified them correctly before consuming them.

To harvest nettles, I use a single leather glove, a pair of scissors, and a bag or basket to hold them. Grasping the top of the nettle with my gloved hand and cutting at the base with the scissors allows me to harvest it without getting roots and dirt mixed in. Very young nettles can be eaten stem and all, but older stems are tougher. If the stems are becoming tough, once I'm back in the kitchen, I use a knife to cut the leaves off (again, with one hand gloved to handle the nettle). Alternatively, just harvest the younger leaves at the top of the plant.

Ingredients:

Stinging nettle greens
Salt
Pepper
Lemon juice

Directions:

Steam nettle greens for five minutes or long enough for them to get very soft and turn a darker green. The stinging property can also be destroyed by boiling the greens. Dress them with a little salt, pepper, and lemon juice. They can be used as a substitute for cooked spinach in many recipes.

Learn more! Read more about Townesmith and his edible plant life list on the Foodology page on our website, **www.mobot.org/foodology**. You can also pick up a copy of *Food Plants of the World* at the Garden Gate Shop.

food plants
of the World

Grow Your Own
EDIBLE GARDEN

by Stacey Schamberger and Elizabeth Spiegel, Missouri Botanical Garden's edible garden experts

photo by Andrew Dolinky

General Tips

- Plan now and buy seeds; rotate crops from year to year to help control pests and diseases and keep soil in good condition.
- Add kale, Swiss chard, or lettuce to ornamental containers to save space and as a beautiful edible touch.
- Trellis peas and pole beans to save space and prevent pest problems and rotting.

Plants

- In March and April, plant onion sets, broccoli, cauliflower, kale, cabbage, rhubarb, asparagus, and horseradish transplants. Begin to sow potatoes, onions, peas, leeks, beets, lettuces and other greens, carrots, radishes, and turnips. Most of these will bounce back after a light frost.
- In May, plant peppers, tomatoes, okra, tomatillos, eggplant, celery, rosemary, thyme, lavender, sage, basil, and tarragon seeds indoors.
- In May, harvest strawberries, peas, spinach, broccoli, and kale.

Maintenance

- When the soil is workable, mix in 1" to 2" of compost to give your garden a boost for the year.
- Plan and put in to action pest and disease management regimen as soon as temperatures are steadily above 55°F.

Don't forget to check out the "Your Garden" section at **www.mobot.org**

Not Just Breakfast Food

How a banana says more about plant biodiversity than you may think.

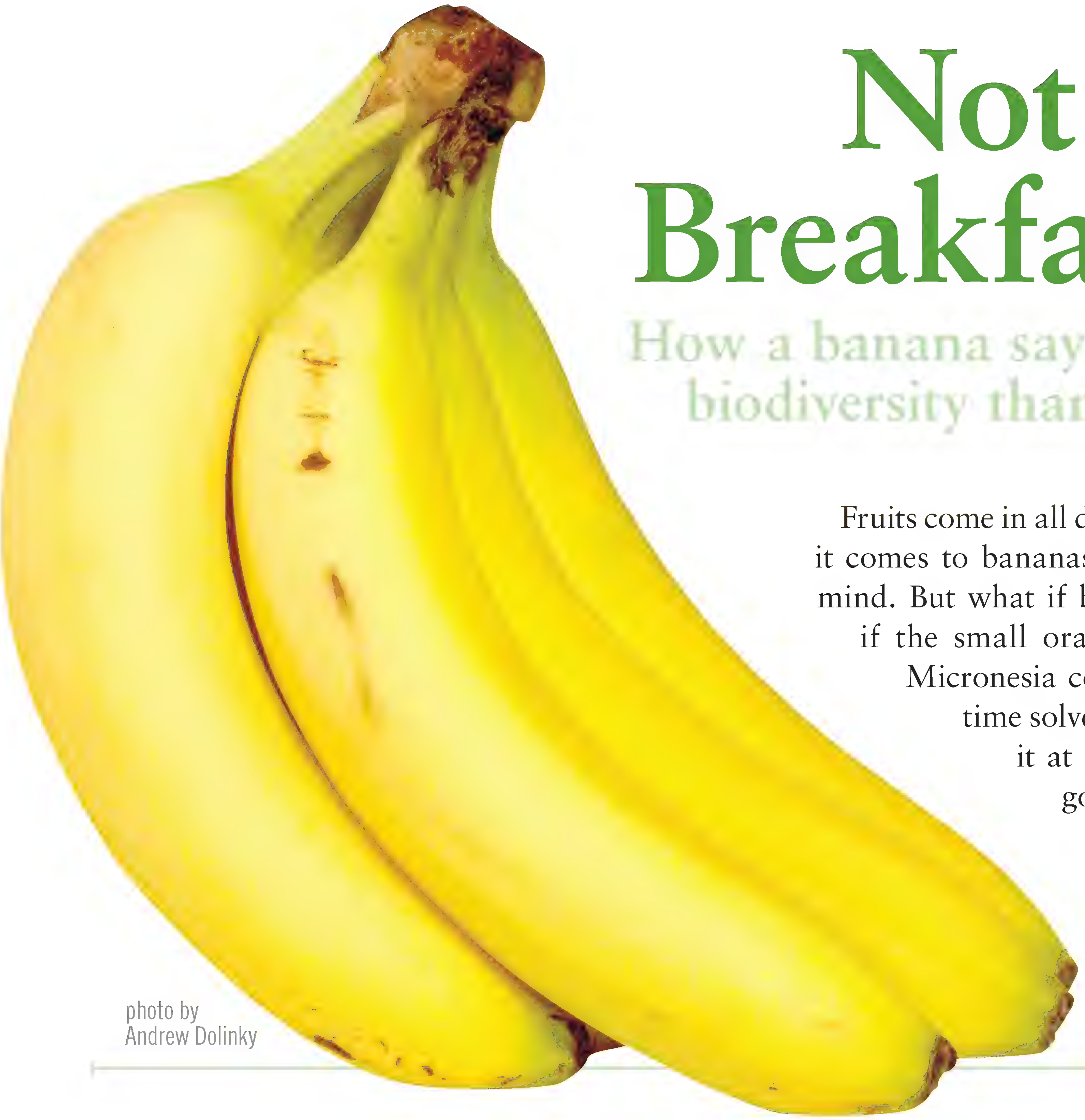


photo by Andrew Dolinky

Fruits come in all different shapes and colors, but when it comes to bananas, only one thing usually comes to mind. But what if bananas have more to offer? What if the small orange banana found somewhere in Micronesia could taste sweeter and at the same time solve child blindness? Would people buy it at the store if they saw it next to the gorgeous yellow ones? The answer to these questions may lie in some of the work being done by Missouri Botanical Garden researchers around the world.

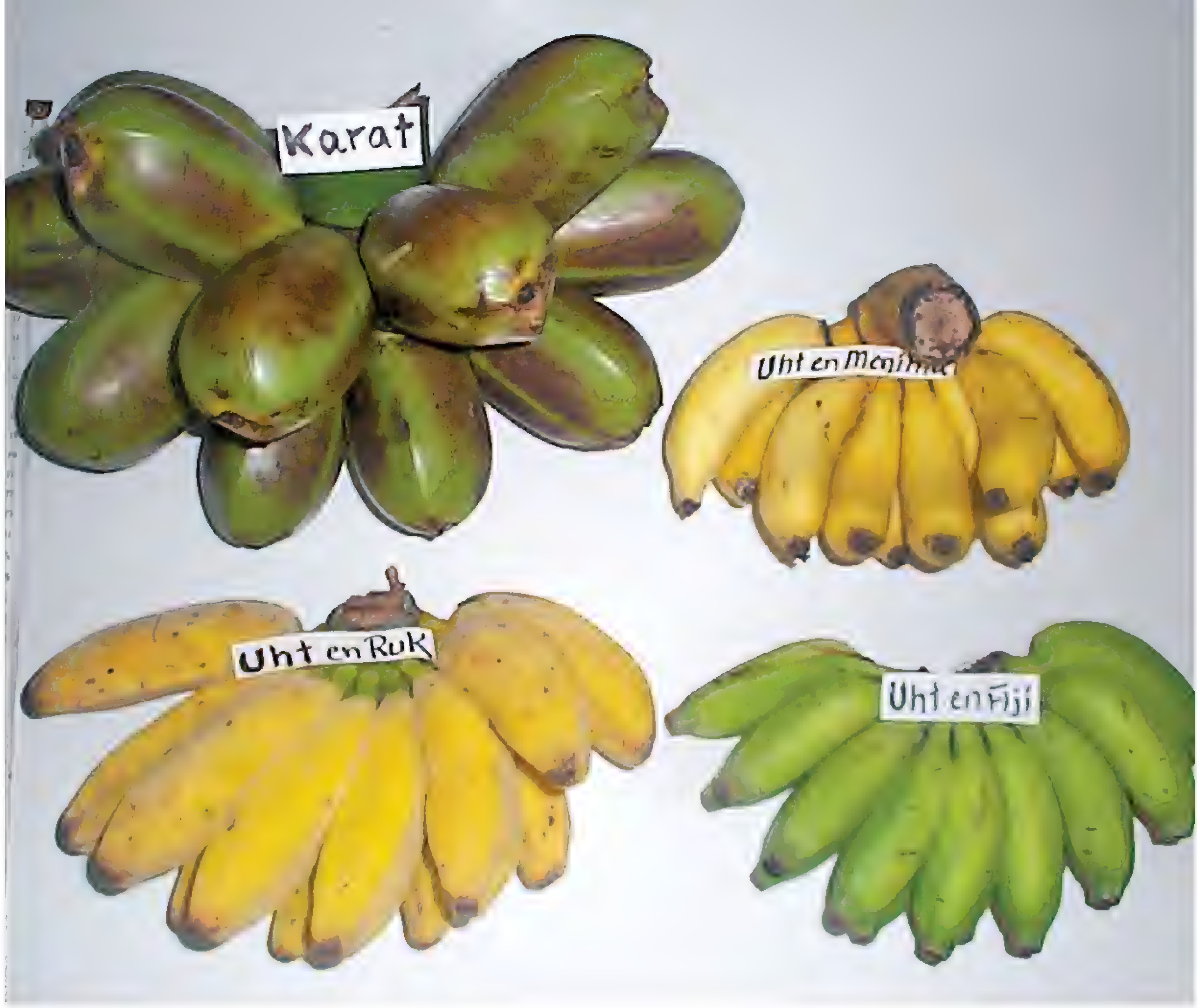
This year, as the Garden celebrates the Year of Food, a banana tells a larger story of the significance of plant biodiversity and the future of the world's food supply. It illustrates the importance of wild species and how they hold the key to what will be on our table in the next 10 to 50 years.

The banana is the most popular fruit in the United States, but it's not just any banana. Almost all bananas traded worldwide are Cavendish bananas, and this variety owes its popularity to the fact that it's easy to harvest and transport, doesn't need refrigeration, and has been marketed for decades as the most accessible exotic fruit available at your local store. "[The Cavendish] has been bred to a certain uniformity and a certain taste, so no matter where you buy your Cavendish banana, you'll always get the same," says Dr. Rainer Bussmann, director and curator at the Garden's William L. Brown Center.

Dr. Bussmann knows the banana plant—not a tree but actually an herb—very well. Some of the work he and the rest of the Garden's research staff have done involves exploring the different traditional, or wild, banana species around the world and researching the potential impact their extinction could have on the production and availability of the Cavendish banana. "The modern varieties' uniformity makes them very susceptible to fungal infections," he says. "So, we actually need the traditional varieties to improve the gene pool of Cavendish bananas against disease."

The reason behind this necessary dependence lies in the banana's biological structure. He explains that a crop like the Cavendish banana doesn't produce seeds, so there's not much genetic exchange. Some traditional varieties have seeds up to an inch long and are indispensable for cross-breeding with the commercial ones to produce new bananas that will be more disease-resistant.

photos by Dr. Lois Englberger courtesy of Dr. Konrad Englberger



Different Pohnpei banana cultivars—illustrating different shapes, sizes, and colors—highlight the rich biodiversity that traditional varieties present and that could help prevent the homogenization of commercial varities.

Recently determined to be very rich in carotenoids (vitamin A), a ripe bunch of *utin lap*, or *Musa* × *paradisiaca*, could play a key role in addressing childhood blindness worldwide.

World Interest

In addition to being more resistant to pests and diseases, some traditional varieties also have proven to be more flavorful and contain more nutrients. For example, a variety found in the Micronesian island Pohnpei has a deep orange color, and test results showed it contains higher vitamin A concentration than carrots. However, just like in many other parts of the world, the increasing need to plant high-yielding commercial varieties threatened to eliminate traditional varieties altogether. “Maintenance of biodiversity, or conservation of biodiversity, can actually give us the tools to feed a growing population with healthy, nutrient-rich food,” Dr. Bussmann says. “By documenting and conserving traditional varieties or traditional crop biodiversity, we can help to maintain a resource that might serve to maintain our food supply.”

The urgency of this issue has not gone unnoticed. There are efforts all over the world that seek to address food security and the loss of plant biodiversity. The United Nations’ Consultative Group on International Agricultural Research (CGIAR) has played a role in research and conservation efforts to secure the world’s food supply, including setting up a global network of seed banks. One such initiative is the Global Seed Vault, also known as the “Doomsday Vault,” a massive structure on the island of Svalbard off the Artic coast of Norway containing billions of frozen seeds as a back-up in case these species and varieties are lost in the future. There is also Slow Food International’s Ark of Taste, which collects and catalogs edible plants at risk of extinction by industrial agriculture, environmental degradation, and homogenization.

These projects, however, cannot address all the issues. For example, there are many plants whose seeds are killed by freezing. Many other varieties can only be maintained through vegetative propagation—transplanting and grafting—and for which the only way to preserve them is in living collections. “Botanical gardens have generally done a good job in growing material that cannot be stored in seed banks,” Garden President Dr. Peter Wyse Jackson says. “We need to research the status of species in the wild, research and find ways of storing them, have the horticultural skills and experience to grow them, ensure that harvesting practices are sustainable, and play a role in raising public awareness of the importance of this diversity.”

The Garden will be serving up something special throughout the year showcasing the link between plants and food. **Foodology: Dig In!** features the foods that bring people together and are part of our past, present, and future. Most importantly, this celebration highlights the central role that plants play in our lives. “Making the connection between food and biodiversity, and for people to understand that they’re one and the same thing, is essential for botanical gardens and one of the great roles that we can play,” Dr. Wyse Jackson says.

Q&A: David Gunn, Rosarian

BOTANICAL
GARDEN
STAFF

photo by Kevin Kersting

Learn more

Join David Gunn for **Roses 101: The Basics for True Beginners** offered Thursday, June 6, 6 to 8 p.m., and **Fall in Love with Roses Again** offered Saturday, June 15 from 9:30 to 11:30 a.m., both classes at the Garden. $25 members, $30 nonmembers. For information or to sign up, visit **www.mobot.org/classes**.

Q. What sets roses apart from other plants?
A. The biggest thing is that few other plants will bloom the whole season, so you get perpetual blooming, which you don't get in most of your other woody perennials. It's a very versatile plant, and [roses] are very hardy. It doesn't have to be any more complicated than any other sort of gardening.

Q. What are some of the most common misconceptions about roses?
A. The biggest one is that the roses are fussy and that they require a lot of maintenance and a lot of chemicals. People assume that roses are reserved for a category of gardener of a higher caliber, so they stay away from roses because they're just "too much work."

Q. Has growing roses evolved with time?
A. Absolutely. People have been growing roses for at least 3,000 years, and each culture has imparted its influence, from the Chinese, Persians, and Greeks to the European apothecary gardens and Empress Josephine, wife of Napoleon, who is credited with bringing the "formal" rose garden into fashion. The recent move is to work toward roses that are hardier, more disease resistant, and that do better in the landscape while providing great flowers and fragrance.

Q. Any advice for home gardeners?
A. It's worth it to do a little bit of research. Get a book on roses and try to find one that's specific to this region. A great book I recently stumbled upon is *Right Rose, Right Place* by Peter Schneider. He grows roses in Ohio, where they have a lot of the same complications that we have here: very cold winters, very hot summers, a lot of humidity. Those are the three things that roses don't deal with very well. A great move is to invest the money in joining your local rose society because you'll find that they are very enthusiastic and very generous with their information, they love growing roses, and they want other people to love growing roses.

Q. What are some tips for growing roses more organically or sustainably?
A. Soil—if you have healthy soil, you'll have healthy plants, and everything else will fall into place. Stay away from synthetic fertilizers and systemic pesticides. Go old-fashioned and dig in some horse manure, and use some leaf litter for mulch.

Q. What is your vision for the two rose gardens at the Garden?
A. It's two-fold. The first is to get people excited about roses again. I want people to come here and see some great roses that do well in this region. The second part is to get scientists and botanists interested in roses again. I think there's a lot of fascinating research to be done about the origins of roses, how they spread around the planet, and how they evolved. There are recent discoveries that have turned some previous beliefs upside down.

Editor's note: Original Q&A edited for space and clarity.

Butterfly House

The 6-inch wingspan makes the Blue Morpho one of the largest butterflies at the Butterfly House. More than 3,000 fill the conservatory every March. (photo by Christopher Gibbons)

Conservation Forest's Treasures

By Chris Hartley, Coordinator of Education Programs

SOPHIA M. SACHS
BUTTERFLY HOUSE
March Morpho Mania®
Presented by
NOVUS

March 1 through 31,
9 a.m. to 4 p.m.,
Open seven days a week this month only!

Members' Day
Tuesday, March 12, 10 a.m.,
Reservations required:
(636) 530-0076 x 10

Activities for the entire family including a quiz for a chance to win a small prize from our gift shop. Included with Butterfly House admission.

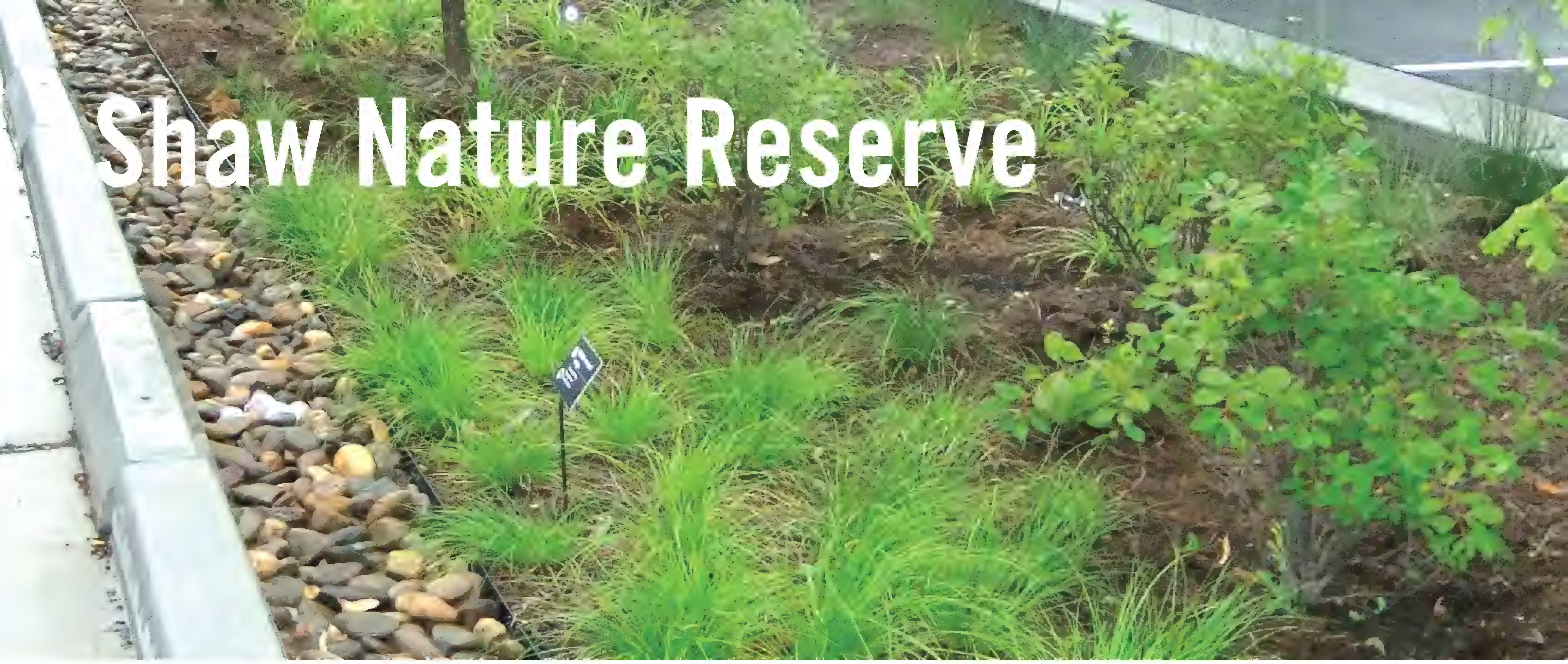
Imagine entering a rainforest on a cold winter day—the weather is warm and the sky is clear and sunny. Thousands of bright blue butterflies fill the air around you. This is the experience you will be treated to during March Morpho Mania® at the Butterfly House. Everywhere you turn, you will see Blue Morpho butterflies sweeping through the air in dazzling flight as we increase our population from around 300 butterflies to 3,000! The glittering blue is easily seen flashing through the air in an unforgettable show of color.

With a 6-inch wingspan, the Blue Morpho is one of our largest butterflies. It is native to the tropical rainforests of Costa Rica and neighboring Central American countries. The males are especially active fliers and spend most of their time searching for females and chasing other males from territories they establish. Females, on the other hand, are less active fliers and will spend more time perching on trees and stones or feeding from fallen fruit or tree sap.

March Morpho Mania® is made even more special by the fact that all of our Morphos come from El Bosque Nuevo butterfly farm in Costa Rica. El Bosque Nuevo is a spectacularly successful model for conservation work. They give 100 percent of their profits to reforestation, rainforest conservation, and research. The Butterfly House is honored to be their partner in this important conservation work. Every visitor to the Butterfly House is directly supporting these important efforts as well. All admission and gift shop revenue will help fund the purchase of more butterflies and further El Bosque Nuevo's conservation efforts.

Also, stop by the newly renovated Lopata Learning Lab, which will be open every weekend so visitors can explore the many ways we are connected to the rainforest (see page 17). Play exciting games, make crafts, look at butterfly wings through a microscope, and even serve up some foods from the rainforest at our make-believe rainforest café.

Shaw Nature Reserve



Bioretention at the Missouri Botanical Garden parking lot captures rainwater, pollutants, and debris before they enter municipal stormwater drains. (photo by Scott Woodbury)

Water's Natural, Clean Route

By Scott Woodbury, Curator, Whitmire Wildflower Garden

Rainwater now flows between plants and seeps into the ground, something it hasn't done in St. Louis for at least a century. It's happening along the city sidewalks and in the new parking lots at Missouri Botanical Garden and Shaw Nature Reserve. Water is taking a more natural route around rocks and through native plants and permeable paving on its way back into the earth instead of heading directly to a storm drain.

In recent years, a variety of innovative stormwater best management practices (BMPs) have been designed and applied in our community. The Metropolitan St. Louis Sewer District (MSD) promotes them as a greener solution to stormwater management. BMPs employ natural processes to clean, slow down, and reduce water volume. Here's how they work:

- Stones, boulders, and native plants slow flow rates, preventing erosion.
- Plantings catch debris and sediment, cleaning creeks and rivers.
- Native plants' deep roots encourage water infiltration, reducing volume.
- Organic rain garden soil captures water like a huge sponge.
- Soil microbes break down chemicals like fertilizers, salt, and vehicle oils.
- Plant evapotranspiration takes water from the soil, reducing volume.
- Pavement is porous, allowing water to pass through.
- Tree canopies capture water before it hits the ground, reducing volume.

Deep-rooted native plants are a basic component of the most popular BMP: bioretention. They promote infiltration of rainfall, filter pollutants, and benefit wildlife such as birds and butterflies.

In collaboration with MSD, the Missouri Department of Conservation, and Alberici, Shaw Nature Reserve developed the Greener Stormwater Solutions workshop as part of the Native Landscaping for Professionals Series. The series of workshops seeks to assist engineers, landscape architects, facility planners, and landscape contractors through the process of designing, installing, and maintaining stormwater BMPs appropriate for St. Louis.

For more information about the series or to register, call (636) 451-3512 x 6078 or email **besa.schweitzer@mobot.org**.

photo by Heather Marie Osborn

Spring Wildflower Market

Saturday, May 11,
9 a.m. to 4 p.m.
Shaw Nature Reserve

Members-Only Preview
Friday, May 10,
4 to 7:30 p.m.

The annual sale offers the widest variety of native wildflowers, ferns, trees, and shrubs available in the Midwest. Admission: Free for Garden members and Reserve passholders; $5 nonmembers; $2 seniors; free for children 12 and under.

Tributes

October through December 2012

A tribute gift to the Garden is a wonderful way to honor family and friends. Tributes of $25 or more are listed in the *Bulletin.* If you have questions regarding giving opportunities at the Garden, please call (314) 577-0805. You can also make a tribute gift online at our website, **www.mobot.org**.

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photo by Leslie Patrice

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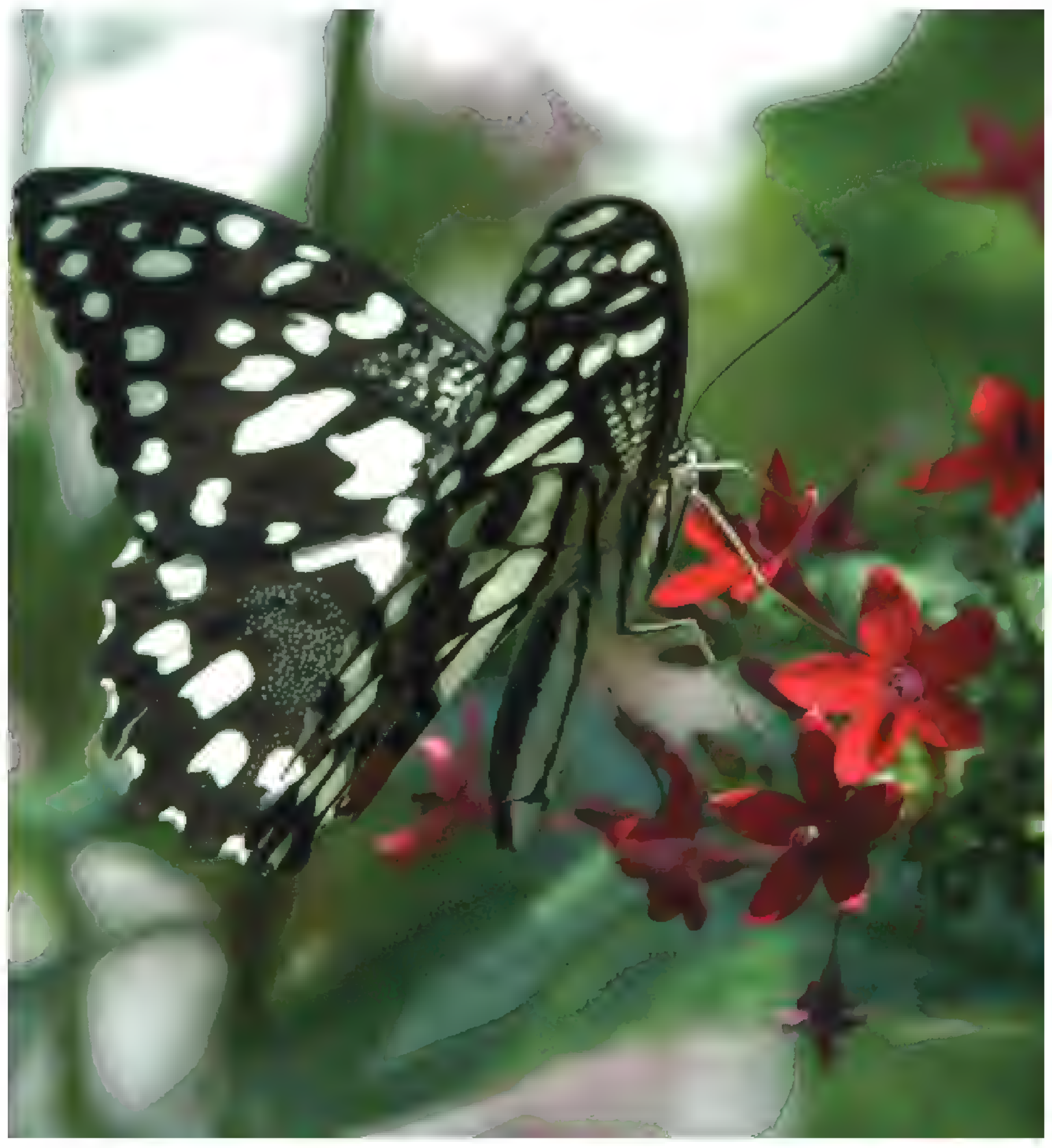
photo by Josh Monken

photo by Brent Johnston

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Ms. Jacqueline Singler
Ms. Francella M. Spencer
The Turley family
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The von Gontard Family Foundation

Sophia M. Sachs Butterfly House Tributes & Pavers

Tributes and Pavers dedicated at the Butterfly House October through December 2012. To learn more about these opportunities, call (314) 577-0291 or visit **www.butterflyhouse.org**.

Tributes

In Honor of

Mrs. Joan F. Goltzman
Ms. Rachel Goltzman

Mrs. Carol Kusterer
Mr. Don Kusterer

In Memory of

Aunt Dottie
Mr. and Mrs. Allan Meier

Carson Lee Mann
Mr. and Mrs. Phil Galante

Pavers

Carol Basch
Mr. and Mrs. Harold Feltmann

Hayleigh Brabham
Mr. and Mrs. Juan J. Cuellar and Family

Carlisle Brigham Champalimaud
The Brothers of Sigma NU

Kent Bruder
Carolyne Wehner

Thomas Joseph Butz
The CJA Girls

Craig Clearman
Ms. Cathy Clearman

Monica Ellis
Friends at ATT DSOC

Harold and Lynn Feltmann
Mr. and Mrs. Harold Feltmann

Sarah Elizabeth Galyon
Mr. Ron Behrle

Amy Hammann
Sophia M. Sachs Butterfly House Staff

Shannon Jackson
Mr. and Mrs. Mark Bengard

Erica Renee Jester
Mrs. Deanna Jester

Beverly Lanfer
Mrs. Deanna Jester

Harold E. Miller
Kathleen and Kim

Daniel Kristopher Schmittgens
Women's Fitness, LLC

Amy Michelle Slama
Amy's Family

Sunny and Aspen
Mr. and Mrs. Michael Anthony Karpowicz

Herman Taute
Dan, Missy and Ian Dillon

Elizabeth Ruck
John, Sue, Bill and Barb

Kaiden Scott and Kennedy Grace Wengler
Mrs. Kris Survant

Ruthie Youngberg
Mrs. Deanna Jester

Members' Entry Court

Bricks dedicated at the Garden October through December 2012. Engraved bricks are a wonderful way to commemorate any special occasion, as well as final memorials. For additional information regarding the Garden's brick program, please contact the Institutional Advancement Office at (314) 577-0291 or visit **www.mobot.org**.

Signature Bronze Bricks

Cindy Bowes
Mr. and Mrs. Greg L. Wolff

Bernard and Dorothy Carney
Dr. and Mrs. Robert M. Carney

Laura and Kenneth Mueller
Mr. and Mrs. Daniel L. Gravens

Lawrence W. O'Neal
Miss Janet S. O'Neal

Lillian Palisch
Dorothy J. Palisch

Barbara V. Short
Mr. Barry A. Short

Fred and Opal Zaun
Ms. Janet L. Nicks

Engraved Clay Bricks

Jean Biddle
Family

Doris Bryant
Mr. and Mrs. Gary Black
Mrs. Patricia Bone
Mr. and Mrs. Victory Burdin
Mr. and Mrs. David L. Butler
Mr. and Mrs. Gary Campbell
Ms. Patricia A. Clark
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Edna Dependahl
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Mildred F. Fabick, Jr.
Ms. Mildred F. Fabick

Hasenmueller Fine
Dr. Elizabeth Hasenmueller and Mr. Jeremy Fine

Jacob Albert Goetz
Ms. Jane M. Madden

Dorothea Hebebrand
Ms. Kathy Joyce

Patricia Anne Holt
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Mr. Marcel A. Kyle

Katherine Lupo
Mr. David G. Lupo

Beth M. Miller
Mr. and Mrs. Jeffrey Taylor

Helen and Charles Robinson
Barbara, Lonnie, Richard and Scott Bailey
Susan and Ken Coumerilh
Linda and David Hardin
Amber, Joshua, Emma and Avery Hardin
Patricia and Donald Hardin
Christine and Tim Kendrick
Heather, Ross, Aiden and Colin MacGarvey
Mary and Jerry Robinson
Stacey and Robert Watson and Kyle Hurst
Janet Williams

John Francis Scott
Ms. Mildred F. Fabick

Kathy Serafin
Lynn Argurieo
Debbie Clintsman
Laura Diliberto
Keith Freeman
Lisa Gerber
Jeanne Hoehn
Lindsey Hoehn
Lisa Johner
Linda Lewis
Kelly Marqua
Judy Ridney
Terri Ringkamp
Jackie Ruhl
Tammy Villemarette
Patty Wagner
Sera and Fin

Velma and Leo Vasquez
Ms. Susan M. May

The Wallace Family
Rich Shasserre
Dave Obedin

Diane E. Wallweber
Mr. Gerald Wallweber

Seen at the Garden

Tracie and Randy Lewis

Turner and Julia Peters

Lloyd and Betty Watkins

Gardenland Express Premiere

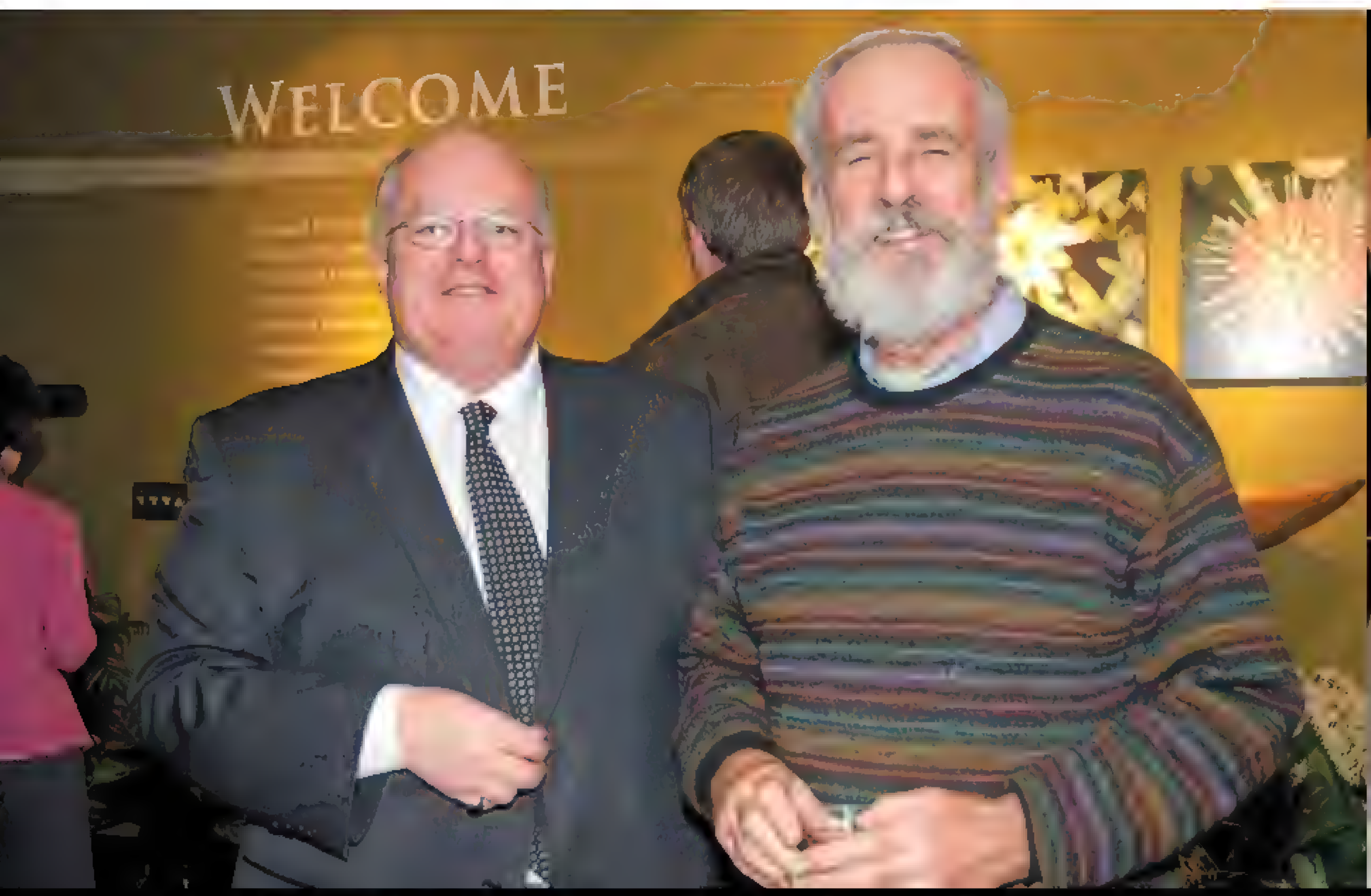
November 27, 2012

Almost 500 members attended the annual holiday event that celebrated "Merry Botanical Traditions" and featured silk sculptures made by Lantern Festival artists.

(photos by Kevin Kersting and Christopher Gibbons)

Katie and Matt Stocke

Nancy and Elizabeth Simpson and Bill and Jane Pohlman


Dr. Peter Wyse Jackson and Hank van der Werff

Barbara Steps and Barbara O'Brien

Arlene and Vicki Howe and Brad Lavallee

Mike and Fran Slusher

Emily Woodard and John Mallon

Orchid Show Premiere

January 31, 2013

Presented by BMO Private Bank.

Nearly 500 members enjoyed the premiere of this year's Orchid Show, featuring the Garden's world-renowned orchid collection and authentic Malagasy artifacts.

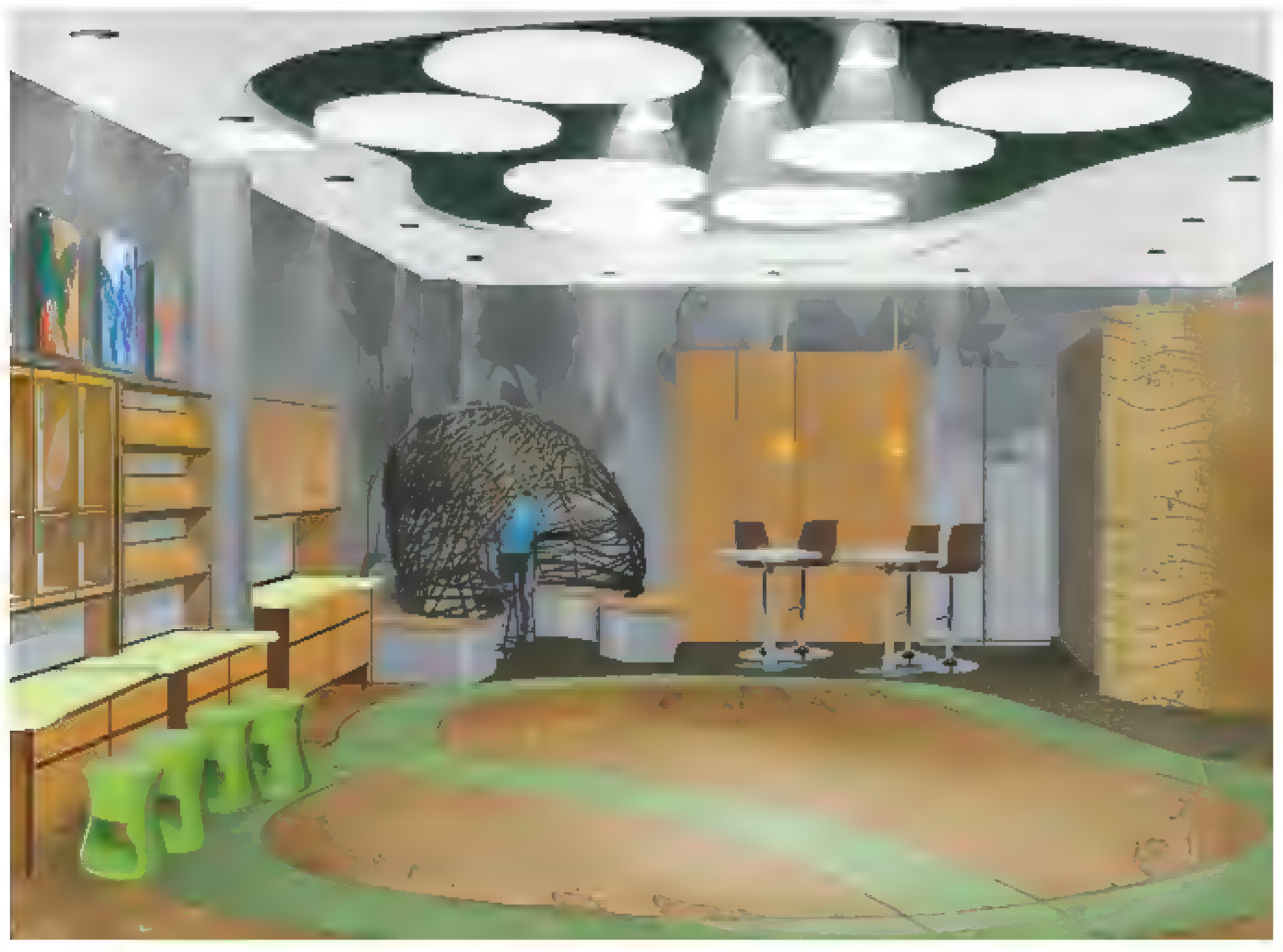
(photos by Josh Monken)

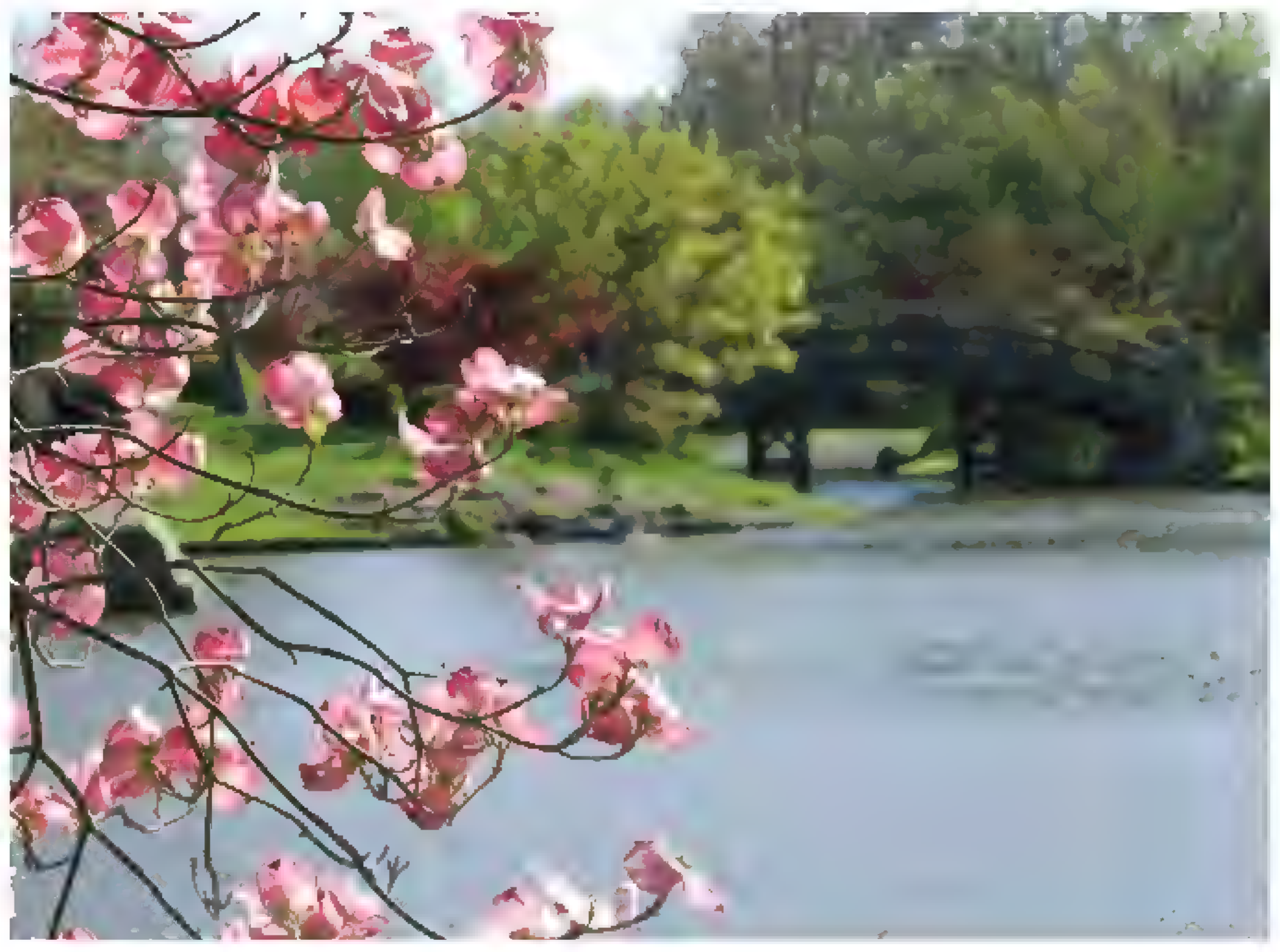
Garden for the World

...for all time

The Missouri Botanical Garden is recognized as one of the top three botanical gardens in the world. It is a leader in protecting plant species and safeguarding the environment. Our work spans across the state, throughout the country, and around the world, and it includes not only scientific research and conservation but also education and community outreach. We are proud to be the keepers of Henry Shaw's legacy of more than 150 years.

In pursuit of our purpose to preserve ecosystems and enrich life through plant research, we must change and grow, and that work requires financial resources. In that spirit, we have launched *Garden for the World … For All Time*, a capital fund drive designed to secure the Garden's future and strengthen what we do today. The scope of the campaign is far-reaching, and we will share additional news with you in coming issues. Projects that were just completed or are underway include:





Lopata Learning Lab

(Winter 2012–2013)

The Lopata Learning Lab serves as the Butterfly House's classroom and event space. Thanks to a generous gift from Lucy Lopata, it was remodeled and turned into a state-of-the-art interactive classroom. The room, with its new ceiling, floor, cabinetry, and custom-made learning stations, will be merged with the rest of the building to create a seamless flow of color and design throughout the Butterfly House. The finished learning lab provides visitors the chance to experience the world of insects and plants in ways they never have before.

Historic Wall

(Starting 2013)

Protecting the future also means treasuring our past. The Garden's historic east limestone wall (along Tower Grove Avenue) is in need of repairs. Age, weather, traffic vibration, sidewalk repairs, and tree roots have compromised its structure. The restoration is possible thanks to a grant from the Department of Interior, National Park Service through the *Save America's Treasures* grant program. The $529,623 grant requires a dollar-to-dollar match for the restoration project, and the Garden continues to seek contributions to fulfill the match.

Japanese Garden

(Winter 2013–2014)

Since its opening in 1977, *Seiwa-en* has become one of the favorite destinations at the Garden. Millions of people have enjoyed its paths, waterfalls, bridges, islands, and of course, plants. Great care was taken to make the Japanese Garden authentic; it features a four-acre lake, four islands including Nakajima and its teahouse built in Nagano Prefecture and reconstructed here, and bridges and lanterns that are important components of Japanese gardens. Restorations will keep this beloved piece of your Garden safe, accessible, and world-class.

photos by Andrea Nickrent and Brent Johnston

For more information about *Garden for the World* and how you can support your Garden, please call (314) 577-5195 or send an email to **membership@mobot.org**.

Events

Doris I. Schnuck Children's Garden Seasonal Reopening

Saturday and Sunday,
March 30 and 31, 9 a.m. to 3 p.m.

Join us as we spring into action and reopen the Children's Garden. Explore the plants we eat in our edible garden, make a seed packet of Missouri natives, and pot an edible plant to take home. Regular Children's Garden admission rates apply. Visit **www.mobot.org/finn**.

Members' Preview Friday, March 29 from 9 to 11 a.m. Reservations required: (314) 577-9570 or **www.mobot.org/events**.

Presented by Macy's Foundation.

St. Louis Garden Blitz: Get to Know and Grow Your Food!

Saturday, April 6,
8 a.m. to 3 p.m.

Enjoy a day of classes, demonstrations, and exhibits featuring nationally and locally recognized horticulturists, farmers, and chefs. Kick off the day with an inspiring panel discussion moderated by Catherine Neville, publisher and editor of *FEAST Magazine*. Food trucks available for lunch. $50 members; $60 nonmembers. Pre-registration required: **www.mobot.org/classes** or (314) 577-9506.

Presented by Bunge North America.

Digging In to the Roots of Our Food

April to December,
9 a.m. to 5 p.m.,
Brookings Center

This fun, hands-on, interactive exhibit will challenge visitors of all ages to explore what they eat in ways that spark curiosity, ignite ideas, and inspire action. Test your Food IQ, calculate how far your food travels, travel the globe to "eat" at another family's kitchen table, and take home a Family Food Challenge journal of your own! Included with Garden admission.

ORCHID SHOW
Madagascar 2013

Through March 31

This year's show highlights the Garden's long-standing research and conservation work in Madagascar. Garden admission plus $5; free for Garden members.

Presented by **BMO Harris Bank**

Herb Days

Thursday to Saturday, April 25–27,
Thursday, noon to 5 p.m.;
Friday and Saturday, 9 a.m. to 5 p.m.

Choose from a wide selection of potted fresh herbs, including new and hard-to-find varieties. Members of the St. Louis Herb Society will give demonstrations and guidance on selecting, planting, growing, and using herbs. Included with Garden admission.

Members get a special preview Thursday from 9 a.m. to noon and are invited to the members-only presentation "Herbs in the Year of Food" by Anne Cori, from 11 a.m. to noon in Shoenberg Theater. Cori is the owner of Kitchen Conservatory and member of the St. Louis Herb Society. Reservations required: (314) 577-9570 or **www.mobot.org/events**.

Fourth Annual Green Ball

Friday, April 26,
7 to 11 p.m.,
Moonrise Hotel,
6177 Delmar Blvd.

Enjoy live music, creative cocktails, and locally sourced cuisine at the annual event to benefit the Garden's EarthWays Center. Creative "green" attire is encouraged. $40 members; $50 nonmembers. For more, visit **www.mobot.org/greenball**.

Grapes and the Garden

Friday, May 3, 5:30 to 8:30 p.m.

Join friends for a special evening at the Garden sampling fine wines and foods. Tickets include admission to the Garden, a souvenir wine glass, wine sampling, hors d'oeuvres, and musical entertainment. All attendees must be at least 21 years of age. Event happens rain or shine. $35 members; $45 nonmembers; $15 designated driver. Reservations required: **www.mobot.org/grapes**.

Presented by Schnuck Markets, Inc.

CHINESE CULTURE DAYS

MAY 18 AND 19

Sponsorship support provided by Novus International, Inc.

Enjoy this springtime celebration filled with Chinese art, music, history, and wonderful food! Admission: $12 (ages 13 and up); $5 Children (ages 3–12); $5 Garden members (free for members' children 3–12).

Shaw's Amazing Race

Saturday, May 4, 9 to 5 p.m., Shaw Nature Reserve

Gather your team for this "amazing race" that will have you scurrying all over the grounds competing to answer questions and complete tasks. The race will be topped off with a spaghetti dinner for all participants. Each team can include up to five participants of all ages. $40 members; $48 nonmembers; price is per team. To register visit **www.mobot.org/classes.**

Conservation Hope in the Age of Extinction

Monday, May 6, 4 p.m., Shoenberg Theater

For the 26th Annual John Dwyer Lecture, Dr. Kingsley Dixon will present some of the great strides in developing new technologies that provide hope for a brighter future for plants and animals. Dr. Dixon is Director of Science at the Botanic Gardens & Parks Authority in West Perth, WA. Included with Garden admission.

Bee-autiful Gifts

Monday, May 20, 9:30 to 11:30 a.m., Butterfly House

Come see the fun that you can have making your own bee-related products and gifts to delight friends and family or to keep for everyday personal use. $35 members; $42 nonmembers. To register visit **www.mobot.org/classes.**

Tower Grove House, Brookings Interpretive Center, narrated tram tours, and Terrace Café also reopen for the season Saturday, March 30.

Tulip Trot

Sunday, April 28, 7 to 9 a.m.

Tulips are the season's show-stoppers. Join the Young Friends for a fun 5K run through the lovely and usually off-limits-to-runners Garden. Proceeds from the event will benefit restoration of the Garden's historic structures (see page 17). $30 members, $35 nonmembers. Entry includes a running shirt. Reservations required: (314) 577-9570 or **www.mobot.org/events.**

Presented by Macy's.

JUST FOR MEMBERS

Members' Event: Eggstravaganza

Saturday, March 23, 10 a.m. to 1 p.m.

Win prizes and meet Bunny while breathing in the beauty of spring at the Garden. Egg hunts are every 30 minutes from 10 a.m. to noon. Free for adult Garden members and children under 2; $5 children ages 2 to 12. Age groups are divided for every hunt. Reservations required: (314) 577-9570 or **www.mobot.org/events.**

Presented by Peabody Energy.

Conservation Club: Merits of Local Food

Tuesday, March 12, 6:30 p.m., Monsanto Center, 4500 Shaw Blvd.

Liz Fathman and Maddie Earnest, authors of *Missouri Harvest*, will discuss what Missouri offers food enthusiasts committed to eating and shopping locally. The event helps kick off the Garden's Year of Food. Reservations and Conservation Club membership required: **christine.brew@mobot.org.**

Members' Day: Herbs in the Year of Food

Thursday, April 25; 11 a.m. to noon, Shoenberg Theater

See page 18 for more details.

Conservation Club: Nesting Places for Bluebirds

Wednesday, May 1, 9 to 10:30 a.m., Shaw Nature Reserve

Explore nesting places for bluebirds with the guidance of experts at Shaw Nature Reserve. Reservations and Conservation Club membership required: **christine.brew@mobot.org.**

Members' Day: Succulent Plant Collection with Andrew Wyatt

New Date: *Wednesday, May 15, 11 a.m. to noon, Shoenberg Theater*

Join Andrew Wyatt, vice president of Horticulture, for a special presentation on the Garden's succulent plant collection. Reservations required: (314) 577-9570 or **www.mobot.org/events.**

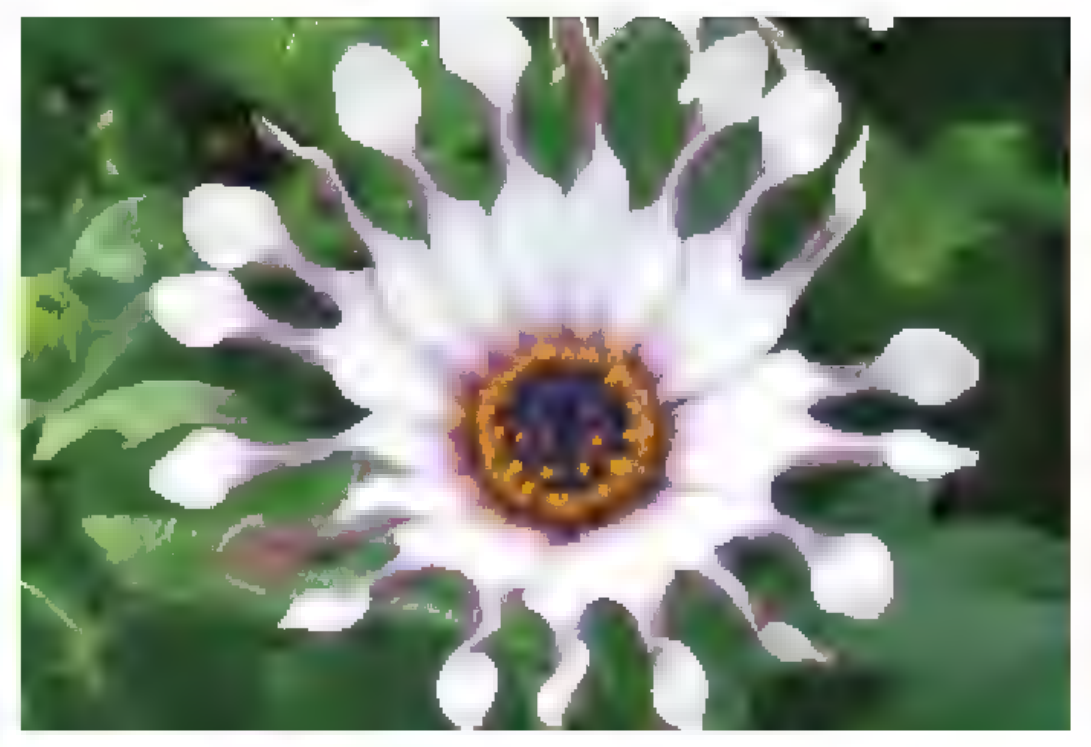
photos by Mary Lou Olson, Christina Kelley, and Brian Mueller

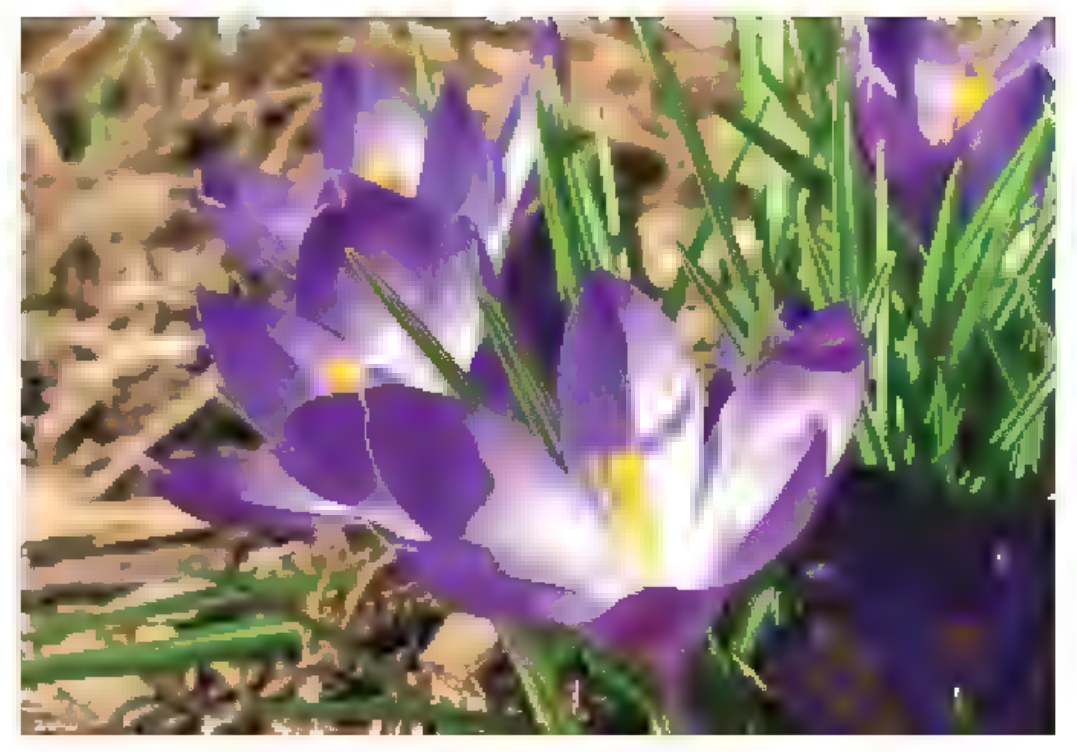
March 2013

average temperature: low 37°, high 55°
average precipitation: 3.4 in.

What's in bloom?

Winter aconite


African daisy


Snow crocus

Higan cherry

Sweet broom

KEY (All events take place at the Garden unless otherwise noted.)

BH	Butterfly House
CA	Cohen Amphitheater
CBEC	Commerce Bank Center for Science Education
CHD	Children's Garden
CL	Climatron lawn
GGS	Garden Gate Shop
JE	Jordan Education Wing in the Visitor Center
KC	Kemper Center for Home Gardening
LS	Little Shop Around The Corner
MB	Madame Butterfly Gift Shop
MC	Monsanto Center
MH	Monsanto Hall in Ridgway Visitor Center
RVC	Ridgway Visitor Center
SNR	Shaw Nature Reserve
SP	Spink Pavilion
ST	Shoenberg Theater in Ridgway Visitor Center
🌿	Sassafras
❀	Members-only event
☎	Reservations required
$	Fee required

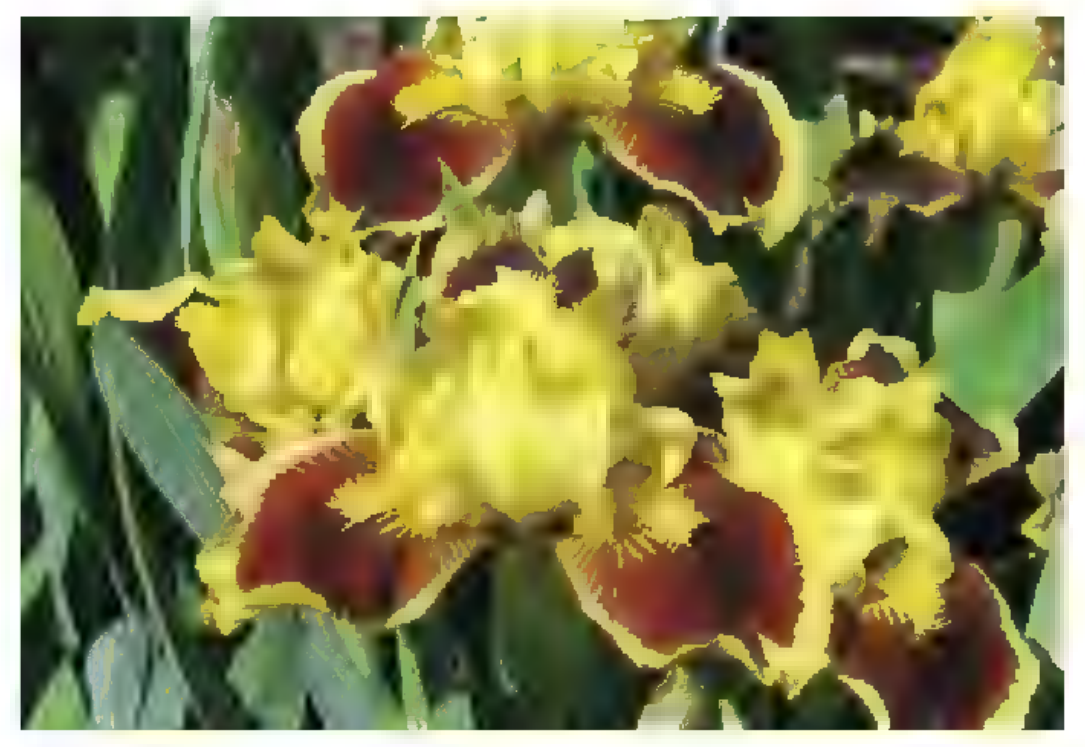
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
ORCHID SHOW Madagascar 2013 Through March 31 Presented by BMO Harris Bank				SOPHIA M. SACHS BUTTERFLY HOUSE March Morpho Mania® Presented by NOVUS® Open 7 days a week this month only!	1 ■ Orchid Show: Madagascar, *through March 31.* $ RVC	2
3	4	5	6	7	8	9
10 *Daylight Savings Time begins*	11 ■ "Ginkgo: The Plant that Time Forgot" by Dr. Peter Crane, 3 p.m. ST	12 ❀ Members' Day: March Morpho Mania® 10 a.m. ☎ BH ❀ Conservation Club: Merits of Local Food, 6:30 p.m. ☎ MC	13	14 ■ Native Plant School: Native Plant Propagation from Seed, 1 to 4 p.m. $ ☎ SNR	15 ■ Around the World Wine Dinner, 6:30 p.m. $ ☎	16 ■ Great Green Adventures: Getting the Garden Ready, 10:30 a.m. and 1:30 p.m., $ CHD ■ Check out the Garden's float at the 44th Annual St. Patrick's Day Parade, 12 p.m., Downtown St. Louis
17 **ST. PATRICK'S DAY**	18	19	20	21	22	23 ❀ Eggstravaganza, 10 a.m. to 1 p.m. $ ☎
24 **PALM SUNDAY**	25	26 **PASSOVER**	27	28	29 **GOOD FRIDAY** ❀ Doris I. Schnuck Children's Garden: A Missouri Adventure Members' Preview, 9 to 11 a.m. ☎ CHD	30 ■ Doris I. Schnuck Children's Garden: A Missouri Adventure Seasonal Reopening, *through March 31.* $ CHD
31 **EASTER** ■ Easter Brunch, 10:30 a.m. $ ☎ 🌿					**Summer Bulb Sale through April 1, Garden Gate Shop**	

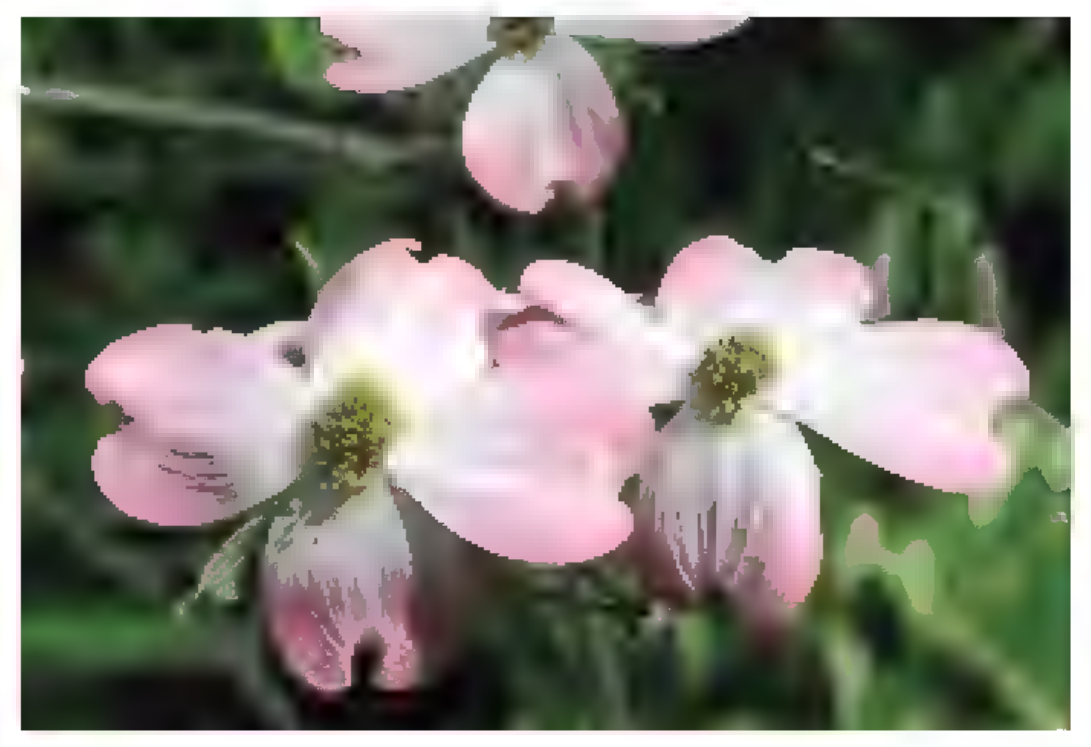
photos by Lisa Francis

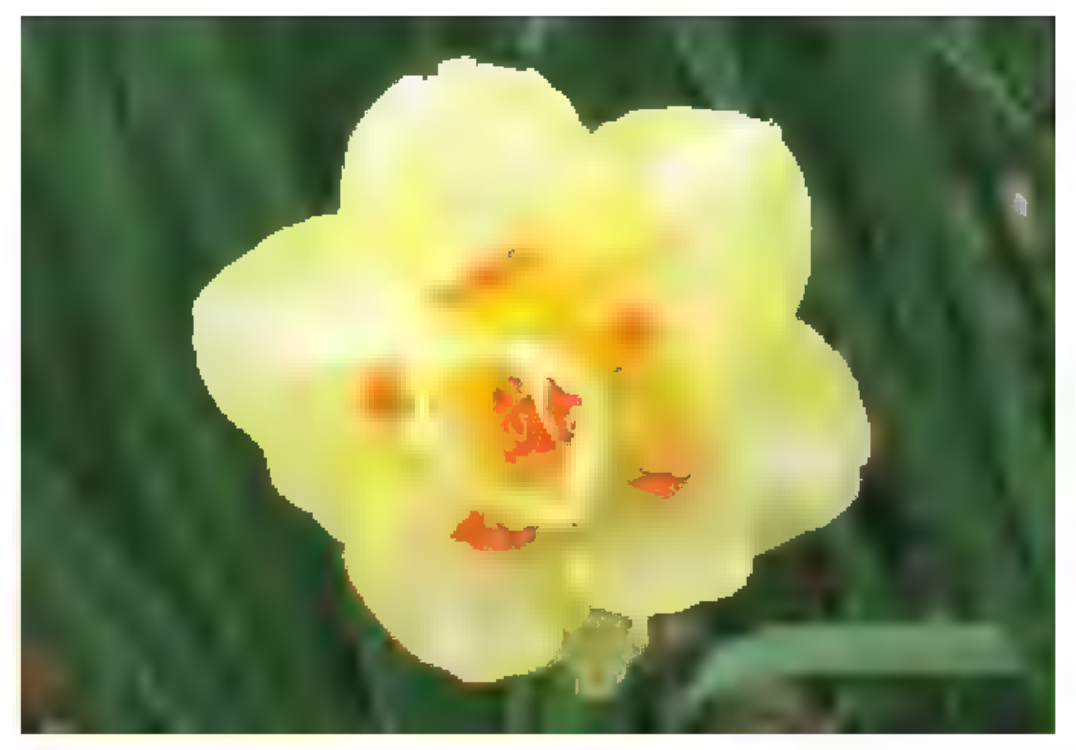
April 2013

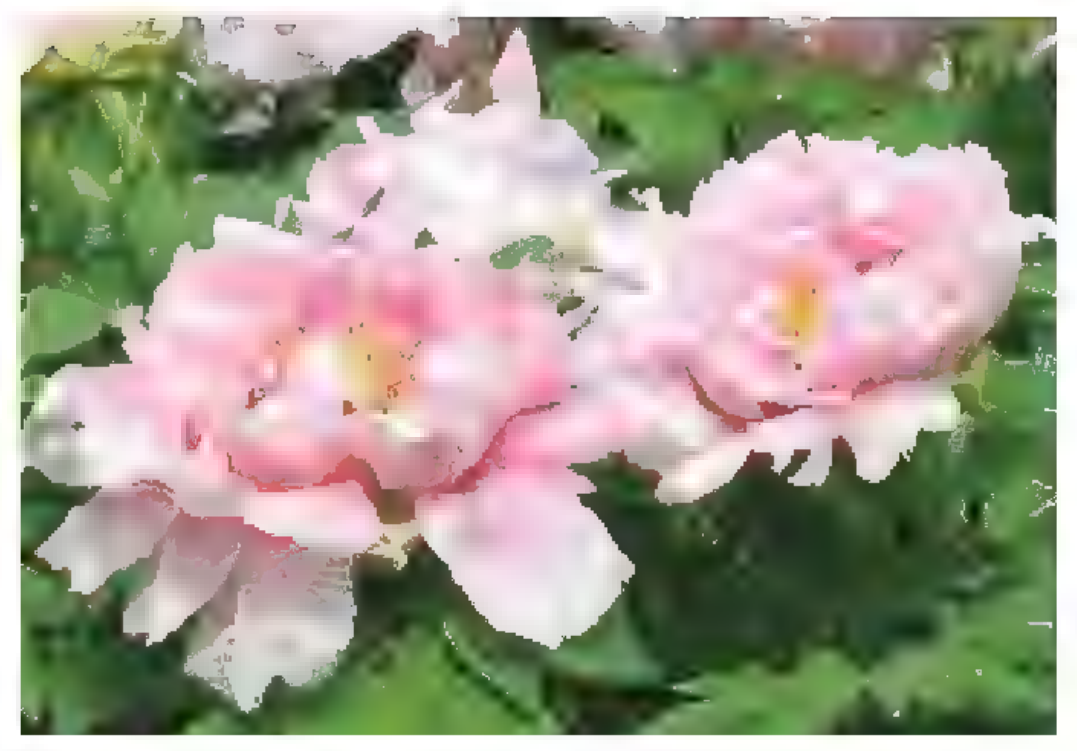
average temperature: low 47°, high 67°
average precipitation: 4.1 in.

What's in bloom?


Dwarf bearded iris


Dogwood


Double daffodil


Tree peony

Foam flower

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
CAFÉ FLORA Brunch at Spink Pavilion Sundays from March 31 through September 29	1 **Summer Bulb Sale, GGS**	2	3	4	5 ■ Arbor Day Tree Giveaway, 9 a.m. KC	6 FOOD OLOGY ■ St. Louis Garden Blitz: Get to Know and Grow Your Food! 8 a.m. to 3 p.m. $ ☎
7	8	9	10	11 ■ Native Plant School: Practical Gardening with Native Plants, 1 to 4 p.m. $ ☎ SNR	12	13
14	15	16	17	18	19 ■ Around the World Wine Dinner, 6:30 p.m. $ ☎	20 ■ Great Green Adventures: Getting to Know Trees, 10:30 a.m. and 1:30 p.m., $ CHD
21	22 **EARTH DAY**	23	24	25 ✿ Members' Day: Herbs in the Year of Food, 11 a.m. to noon ☎ ST ■ St. Louis Herb Society Herb Days, RVC	26 **ARBOR DAY** ■ Fourth Annual Green Ball, 7 to 11 p.m. $ Moonrise Hotel ■ St. Louis Herb Society Herb Days, RVC	27 ■ St. Louis Herb Society Herb Days, RVC
28 ■ Young Friends: Tulip Trot, 7 to 9 a.m. $ ☎	29	30	FOOD OLOGY dig in! Digging In to the Roots of Our Food *April through December*	www.plasticpot recycling.org April – October		

photos by Lisa Francis and Brent Johnston

May 2013

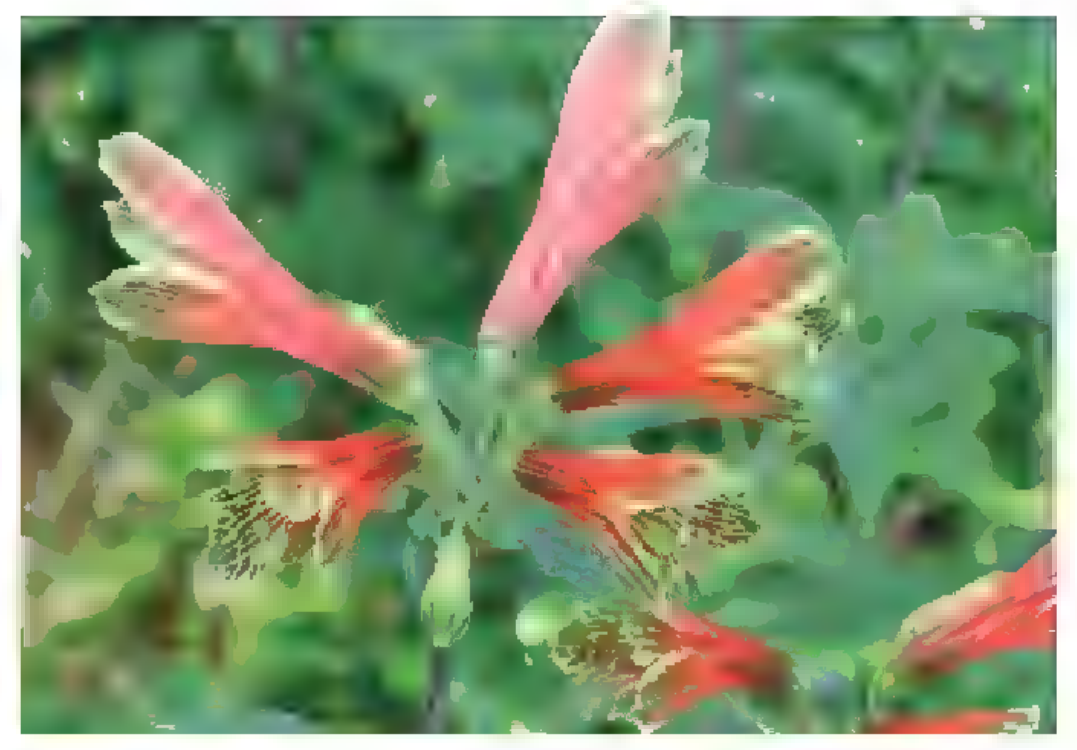
average temperature: low 57°, high 77°
average precipitation: 4.8 in.

What's in bloom?

Shrub rose

Peony

Bellflower


Lily of the Incas

Clematis

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			1 ❀ Conservation Club: Nesting Places for Bluebirds, 9 to 10:30 a.m. ☎ SNR	2 ■ Native Plant School: The Art and Function of Combining Native Plants, 1 to 4 p.m. $ ☎ SNR	3 ■ Grapes and the Garden, 5:30 to 8:30 p.m. $ ☎	4 ■ Shaw's Amazing Race, 9 a.m. to 5 p.m. $ ☎ SNR
5	6 ■ "Conservation Hope in the Age of Extinction" by Dr. Kingsley Dixon, 4 p.m., ST	7	8	9	10 **NATIONAL PUBLIC GARDENS DAY** ❀ Members-Only Preview: Spring Wildflower Market, 4 to 7:30 p.m., SNR	11 ■ Spring Wildflower Market, 9 a.m. to 4 p.m., SNR
12 **MOTHER'S DAY**	13	14	15 ❀ Members' Day: Succulent Plant Collection with Andrew Wyatt, 11 a.m. to noon, ☎ ST **Members' 20% Off Sale through May 19 at the Garden Gate Shop**	16	17 ■ Around the World Wine Dinner, 6:30 p.m. $ ☎	18 ■ Great Green Adventures: Interesting Insects, 10:30 a.m. and 1:30 p.m., $ CHD ■ Chinese Culture Days, 10 a.m. to 5 p.m. $
19 ■ Chinese Culture Days, 10 a.m. to 5 p.m. $ *No Café Flora Brunch*	20 ■ Bee-autiful Gifts, 9:30 to 11:30 a.m. $ ☎ BH	21	22 **WORLD BIOLOGICAL DIVERSITY DAY**	23	24	25
26	27 **MEMORIAL DAY**	28 **FOODOLOGY** dig in! *Savor Your Summer!* **Through August 25**	29	30	31	

photos by Lisa Francis, Tom Incrocci, and Sonia Lalla

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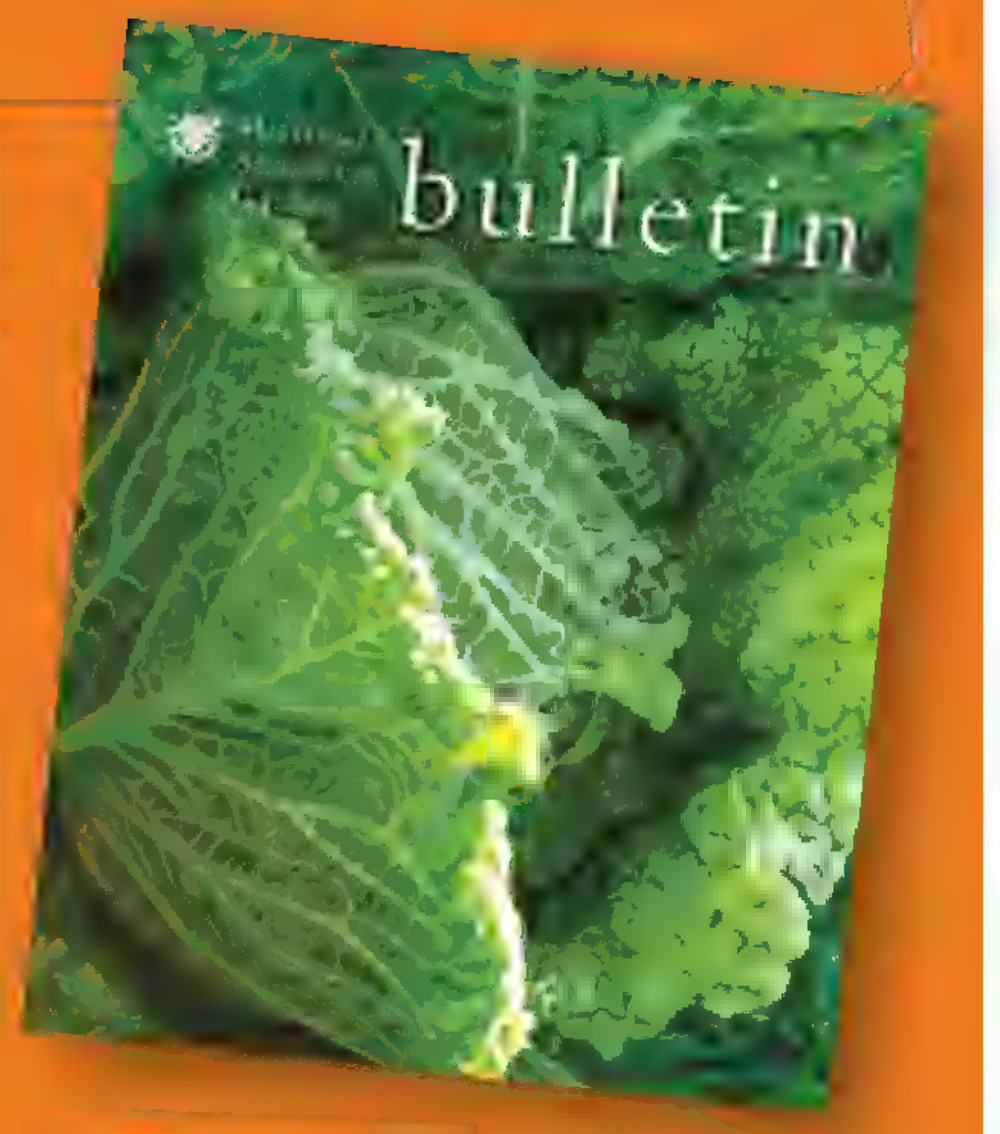
DON'T FORGET!
20% off garden equipment during the month of March

photo by Andrew Dolinky

green today
greener tomorrow

Go Paperless, Go Green!



The Missouri Botanical Garden strives to make the most sustainable choices possible to benefit people, plants, and the planet. That's why we offer the *Bulletin* as a downloadable PDF for viewing on your computer. Sign up for the new online version by sending an email to **membership@mobot.org**. Let us know if you'd like to forego your paper subscription to save trees.

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photo by Mary Lou Olson

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bulletin

Summer 2013 Vol. 101 No. 3 www.mobot.org

photo by Koraley Northen

President's Comment

As the repositories of living plant collections, botanical gardens around the world have become leaders in plant education and preservation. Our involvement in research and conservation of floras has never been more crucial to safeguarding Earth's biodiversity, and our unique connection to the public allows us to engage and inspire our visitors to learn more and understand the importance of plants.

The balance of these roles was one of the main points that Richard Deverell, director of Royal Botanic Gardens, Kew, made during his visit to the Garden in April. We were honored to have Director Deverell here to continue the great tradition and close relationship between the two institutions (see page 4). It is a collaboration that goes back to Henry Shaw's founding of the Missouri Botanical Garden in 1859 and one we look forward to continuing for many more years, including on the upcoming World Flora Online.

Our tasks and responsibilities involve preparing for the future just as much as understanding our past, and the relation between the Garden and wine is a great example (see page 8). As we look at Henry Shaw's wine appreciation and our horticulturists' grapevine study to develop sustainable agriculture practices, it's hard not to be amazed by the power of plants and their presence in practically every aspect of our lives, especially food.

We hope you continue exploring this fascinating connection with us throughout the year as we celebrate **Foodology: Dig In!** (see pages 7 and 19). Your support ensures that our mission to study and preserve plants, including those that nourish us, continues to enrich our lives now and in the future.

Peter Wyse Jackson

Dr. Peter Wyse Jackson,
President

As a Garden member, did you know that:

- **NEW!** You can enjoy evening walking hours from May 28 to August 27 on Tuesdays from 5 to 8 p.m. as a new benefit this year?
- You receive free admission for two adults and all children ages 12 and under to the Shaw Nature Reserve and Sophia M. Sachs Butterfly House?
- You receive free admission to the Children's Garden all day Tuesdays? (Open March 30–October 31)
- Special Members' Days entitle you to exclusive events and activities, as well as free tram rides and discounts in the gift shop and café?
- You get free or reduced-price admission to nearly 270 botanical gardens and arboreta in the U.S. and Canada?

These are only a few of the benefits. Visit **www.mobot.org/membership**, email **membership@mobot.org**, or call (314) 577-5118 to learn more.

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Garden Hours

The Garden is open 9 a.m. to 5 p.m. every day except Thanksgiving Day, Christmas Eve, and New Year's Eve when it closes early at 4 p.m. Closed on Christmas Day.

General public outdoor walking hours begin at 7 a.m. Wednesdays and Saturdays.

General Admission

$8 ($4 for residents of St. Louis City and County); children 12 and under are free. Garden members receive free admission (based on level).

Children's Garden: $5 for children; adults admitted free. ($3 for Garden members' children.) Members' children admitted free on Tuesdays. Open April through October.

Contact

Missouri Botanical Garden
4344 Shaw Blvd., St. Louis, MO 63110
(314) 577-5100 • www.mobot.org

On the Cover:

Dahlia, *Dahlia* spp. Photo by Kevin Kersting. **Did you know?** In addition to being beautiful ornamentals, dahlias are also edible? Learn more this year with **Foodology: Dig In!**

Credits

Editor/Designer: Andrea Molina

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photo by Cat Hendel

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To discover and share knowledge about plants and their environment in order to preserve and enrich life.

– mission of the Missouri Botanical Garden

News

New Trustee Elected

On March 6, Thad Simons was elected to the Garden's Board of Trustees. Simons is President and Chief Executive Officer of Novus International, Inc. Prior to becoming President and CEO, Simons was head of Business Development for Novus. He was part of the Monsanto Company's legal staff for several years before joining Novus in 1991 as legal counsel and a member of the executive team that launched the company.

Simons earned his law degree from the University of Georgia and holds postgraduate degrees from Columbia University and Vrije Universiteit Brussel and a *Diplôme d'Etudes Approfondies* from the Université de Paris I. He currently serves on several boards including United Way of Greater St. Louis, Contemporary Art Museum of St. Louis, Saint Louis Zoo, and Boeing Institute of International Business at St. Louis University.

Garden Appoints New Vice President

In March the Garden welcomed Donna McGinnis as Vice President of Institutional Advancement. She brings more than 20 years' experience working on behalf of nonprofit organizations in St. Louis.

McGinnis most recently was Managing Director of Institutional Advancement at the Missouri History Museum. Her career includes providing direction to more than 60 nonprofit organizations as senior consultant with the Rome Group. McGinnis also works with the Nonprofit Management graduate program at Washington University in St. Louis as program coordinator and adjunct faculty.

McGinnis holds a master's degree in business administration and a bachelor's degree in communication. She is a Certified Fund Raising Executive (CFRE) and a graduate of Leadership St. Louis and the CORO Women in Leadership Program.

In Memoriam: Roy Jerome Williams, Sr., M.D. (1925–2013)

Roy Jerome Williams, Sr., MD, a physician and community leader, died Saturday, March 16, 2013. He was 87.

Dr. Williams served on the Botanical Garden Subdistrict for more than 20 years, most recently as chair. He also served on a Garden advisory committee during the creation of the George Washington Carver Garden.

Dr. Williams is survived by his wife Carol, five children, and several grandchildren and step-grandchildren.

Director Visits the Garden

Richard Deverell (left), director of Royal Botanic Gardens, Kew, with Garden President Dr. Peter Wyse Jackson (right) during his four-day visit to St. Louis. (photo by Ellen Flesch)

Richard Deverell, director of Royal Botanic Gardens, Kew, visited the Missouri Botanical Garden from April 8 to April 11. During his visit, he also toured Shaw Nature Reserve and the Butterfly House.

In his speech to Garden staff, he not only highlighted the long-standing relationship between two of the top botanical gardens in the world—one that dates back to Henry Shaw's time—but also spoke about the role they play in addressing some of society's issues today such as food security and climate change. "Plant life is at the heart of solving many of those incredibly complex problems," he said. "If we play a small role in contributing to the solution of those problems, helping the public to understand the nature of those problems and the fact that solutions do exist, they'll be very worthwhile institutions indeed."

MBG Rated Among Top Public Gardens in the U.S.

TripAdvisor, one of the largest online travel sites in the world, rated the Missouri Botanical Garden among the 10 best public gardens in the country. The site announced its Top Ten list, based on travelers' reviews, on its blog on April 3. The Garden was ranked third.

St. Louis City Announces Sustainability Plan

On February 28, St. Louis City Mayor Francis Slay announced the city's Sustainability Plan and its Action Agenda outlining priorities for the next five years. Garden President Dr. Peter Wyse Jackson spoke at the press conference, held at Lambert St. Louis International Airport, about the role the Garden will play in implementing the plan. "We look forward to working with the city to use our expertise to support all efforts in environmental conservation in St. Louis and the revitalization of the city's biodiversity and natural resources," he said.

Garden President Dr. Peter Wyse Jackson, along with Airport Director Rhonda Hamm-Niebruegge and Mayor Francis Slay, presented the city's Sustainability Action Agenda. (photo courtesy of St. Louis City)

Garden's CBEC Earns LEED Certification

The Garden's Commerce Bank Center for Science Education (CBEC) received LEED™ Silver Certification for Existing Buildings. The certification process formed a unique partnership with the U.S. Green Building Council (USGBC)–Missouri Gateway Chapter. This pilot partnership, the first of its kind in the region, is now a model available to other building owners. "Sustainability endeavors, including LEED Certification, require a lot of people and time," says Emily Andrews, Executive Director of USGBC–MO Gateway. "Our collaboration provides individuals who want to become LEED-accredited professionals with the experience needed to earn this credential and supports building owners who have limited resources in pursuing LEED certification."

Providing Plant-based Solutions to Urban Issues

Three of the four winners of the Sustainable Land Lab competition, co-sponsored by Washington University in St. Louis, the City of St. Louis, and Old North St. Louis Restoration Group, were supported by the Garden's EarthWays Center. The project seeks innovative and replicable ideas to productively utilize city vacant lots. The winners, announced April 11, receive a two-year lease on the lots and $5,000 in funding to implement and maintain their projects.

The three projects are Chess Pocket Park, Mighty Mississippians, and The Sunflower+ Project. "The Garden is a natural partner in the Land Lab project," says EarthWays Center Director Glenda Abney. "The winning projects all incorporate plant-based solutions to urban issues and engage an underserved community with plant-based benefits."

To learn more about the projects visit **sustainablecities.wustl.edu/land-labs-competition**.

Another plant-based resource that the Garden provides to the community is the online RainScaping Guide coupled with a rebate program for residents within the Deer Creek watershed. Rainscaping consists of sustainable landscaping practices that help capture rainwater instead of allowing it to run off-site.

The program was initiated by the Garden's Deer Creek Watershed Alliance to improve water quality in Deer Creek and its tributaries. "The public response has been overwhelmingly positive," says Vice President of Sustainability Deb Frank. Of the 173 rebate proposals received, 46 percent of the qualified applications received funding ($91,720 total), including both residential and nonresidential projects. Visit **www.mobot.org/rainscaping** for the complete guide.

New Floral Display Show this Summer

Come to the Garden this summer, from June 29 through August 4, to enjoy a newly introduced floral show, *Desert Show: Plants and People of the Western U.S. Deserts*. The display will emphasize the important role desert plants play in our lives, highlighting the North American deserts. Visitors will not only get a chance to see cacti from the Garden's rarely seen permanent collection but also learn about the use of plants by American Indians for textiles and food. Garden admission plus $5; free for Garden members. Sponsorship provided by the Henry Shaw Cactus and Succulent Society.

News cont.

photo by Leslie Mitchell-Jackson

St. Patrick's Day Parade

Garden President Dr. Peter Wyse Jackson was the Honorary Marshall at the 2013 St. Louis Metropolitan St. Patrick's Day Parade. The Garden's float promoting the importance of conserving the world's "green" took the award for "Best Commercial Unit" for the second year in a row!

SIFT Students Get Top Honors in Competition

Five former participants of the Shaw Institute for Field Training (SIFT) and Tyson Environmental Research Fellowship (TERF) programs received awards and recognitions at the 2013 St. Louis Science Fair Honors Division on February 2. Katie Hufker, junior at Lindbergh High School, won 2nd Place, received a $2,000 scholarship, and represented St. Louis at the International Science & Engineering Fair in Phoenix in May.

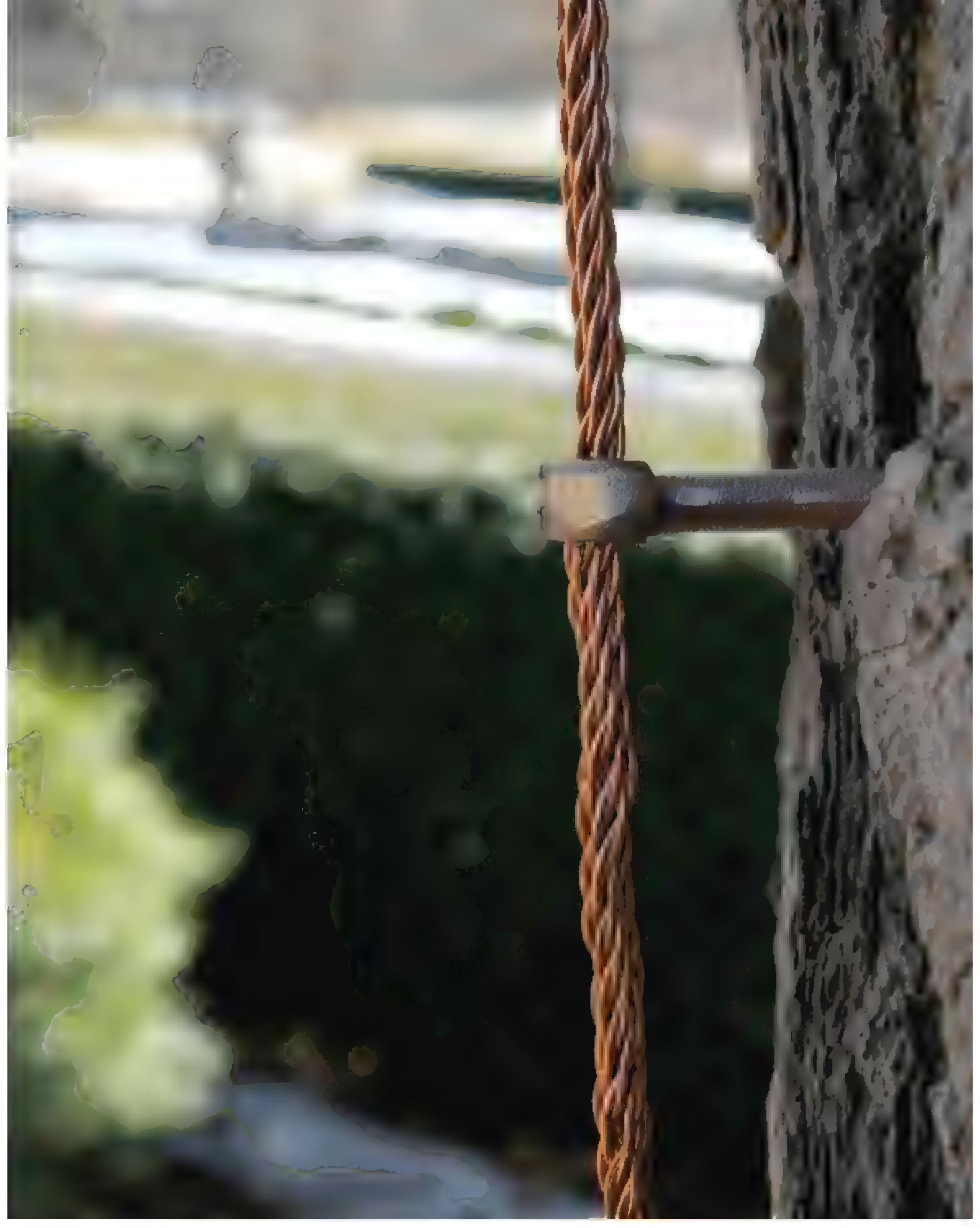
Among the semi-finalists was Nithya John, junior at Marquette High School. Her project, "The Effects of Dormant Season Fires on Leaf Traits of an Invasive Shrub (*Ionicera maackii*)," was influenced by her experiences with the two programs over the past year. "It is directly tied to our mission-related focus on ecological restoration," says Vice President of Education Sheila Voss. During her time with SIFT and TERF, John worked in projects such as seed collecting and pollinator surveys. "It's exciting because it shows that what we're doing is having an effect," says Lydia Toth, Senior Manager of Education at Shaw Nature Reserve. "All of the students who participate in SIFT leave with a better understanding of the environment and field research."

Nithya John's experiences at the Reserve helped her with her science project. (photo courtesy of Susan Flowers)

Just For You: Summer Evening Strolling Hours

When we've asked how to make membership even better, we often hear: "We'd like a little quiet time, please." In response, from May 28 to August 27, the Garden will be open Tuesdays from 5 to 8 p.m. exclusively for members.

There will be a few quiet activities, including horticulturists in their areas of expertise to respond to questions and demonstration chess games. Above all, this will be an opportunity to immerse yourself in the evening serenity of the Garden.



Copper lines run from the top of the tree to the grounding rod at the bottom to prevent lightning from damaging it. (photo by Benjamin Staver)

Gamma Tree Experts Protecting Garden's Trees

During storms, as lightning finds the highest point to strike, some of the most precious members of the Garden's tree collection are easy targets. That's why, thanks to a generous capital donation from Gamma Tree Experts, the Garden is protecting 71 trees identified as the most vulnerable and valuable (38 in 2012 alone). "The idea behind the lightning protection is that we create a path for that electricity to move down to the ground without going through the tree," says Vice President of Horticulture Andrew Wyatt. A copper line runs from the uppermost part of the tree, or "air terminal," down to a ground rod.

The Horticulture team picked the trees based on their historic and landscape value and their proximity to structures.

Horticulture Supervisor Ben Chu, who oversees the project, says ongoing maintenance and inspection are necessary. "We're selecting the largest and the best of our collection," he says.

To find out more about sponsoring a tree and its maintenance, please call (314) 577-9500.

FOODOLOGY dig in!

What's on the menu? In 2013 celebrate the Year of Food! Join the Garden and its family of attractions for more activities, classes, and events celebrating the wonderful world of food.

Foodology: New Herb Container Garden

As the Garden celebrates the "Year of Food," don't miss the latest addition to the Herb Garden behind Tower Grove House. The new herb container garden, made possible by the generosity of the St. Louis Herb Society, features 15 containers representing five regional cuisines—Chinese, Indian, Thai, French, and Lebanese—and their respective recipes. "We wanted to use containers to show that you don't need to have a garden to grow herbs," says Garden horticulturist Jennifer Kleeschulte. "It's a great alternative for people living in the city."

Four other culinary regions are also represented by herbs planted around the containers: Mexican, Spanish, Italian, and Greek.

The Herb Garden is not the only area of the Garden transformed to celebrate plants and food. The Horticulture staff has been adding edible touches throughout the Garden this year. Visit **www.mobot.org/foodology** to watch videos and read more about these edible gardens straight from the team of horticulturists who plan, plant, and harvest them.

Edible Plant Life List

By Andrew Townesmith, WLBC Research Specialist

Pawpaws (*Asimina triloba*) are the northern-most representatives of the tropical plant family Annonaceae. They are often described as the largest fruit native to North America; the fruits are slightly elongated but about the size of a large apple. They usually ripen during the first two weeks of September, but I have seen some as early as the end of August.

Previously, I have used pawpaws to make pawpaw bread, (following a recipe for banana bread, but substituting pawpaws for bananas), or a custard. I'm looking forward to pawpaw season this year and hope to try the recipe below, courtesy of Dr. Catrina Adams.

Learn more! Read more about Townesmith, his experience harvesting and preparing pawpaws, and his edible plant life list by visiting **www.mobot.org/foodology**

Pawpaw Coconut Honey Ice Cream

By Dr. Catrina Adams, Manager of Education Technology at the Botanical Society of America

Ingredients:

1 cup milk or cream
1 can coconut milk
pulp from about 5 pawpaws
¼ cup honey

Directions:

Blend together milk, coconut milk, and pawpaw pulp in a blender.

Freeze using an ice cream maker or another ice cream freezing method (for example, shaking two coffee cans).

Add honey as the ice cream begins to become solid for honey ribbons. Or blend honey with other ingredients if you prefer it mixed in.

Grow Your Own EDIBLE GARDEN

by Stacey Schamberger and Elizabeth Spiegel, Missouri Botanical Garden's edible garden experts

photo by Andrew Dolinky

General Tips

- Water consistently and mulch around plants to conserve water.
- Plant vine vegetables—melons, squash, cucumbers—in a "hill" (piling dirt about five inches tall).
- Trellis climbing and vining vegetables to save space and increase air circulation, decreasing bacteria and fungal problems.

Plants

- Start beans, squashes, cucumber, melon, chard, cabbage, cauliflower, Brussels sprouts, broccoli, kale, kohlrabi, and lettuce indoors to transplant in late July.
- In August sow seeds for turnips, spinach, mustards, Chinese cabbages, scallions, beets, radishes, carrot, lettuces, peas, endive, arugula, and collard greens.
- Rotate your crops. Avoid planting crops in the same space two years in a row to avoid diseases.

Maintenance

- Watch for insects on your plants. Be sure to know your bugs in order to not harm beneficial insects.
- Remove and compost dead plant material to decrease pest and disease problems.
- Fertilize as you plant.
- Continue harvesting as plants produce. Harvesting regularly will increase your yields.

Don't forget to check out the "Your Garden" section at **www.mobot.org**

A Fine Blend

The history, science, and love behind the Garden's close connection to wine.

London Dock Sherry
TOWER GROVE 1859

Garden founder Henry Shaw is known for his detailed business records. He meticulously wrote down every transaction, plant collected, and art commissioned. However, very little is known about his private life, and nowhere in his archived personal correspondence does he write much about one of his true loves: wine.

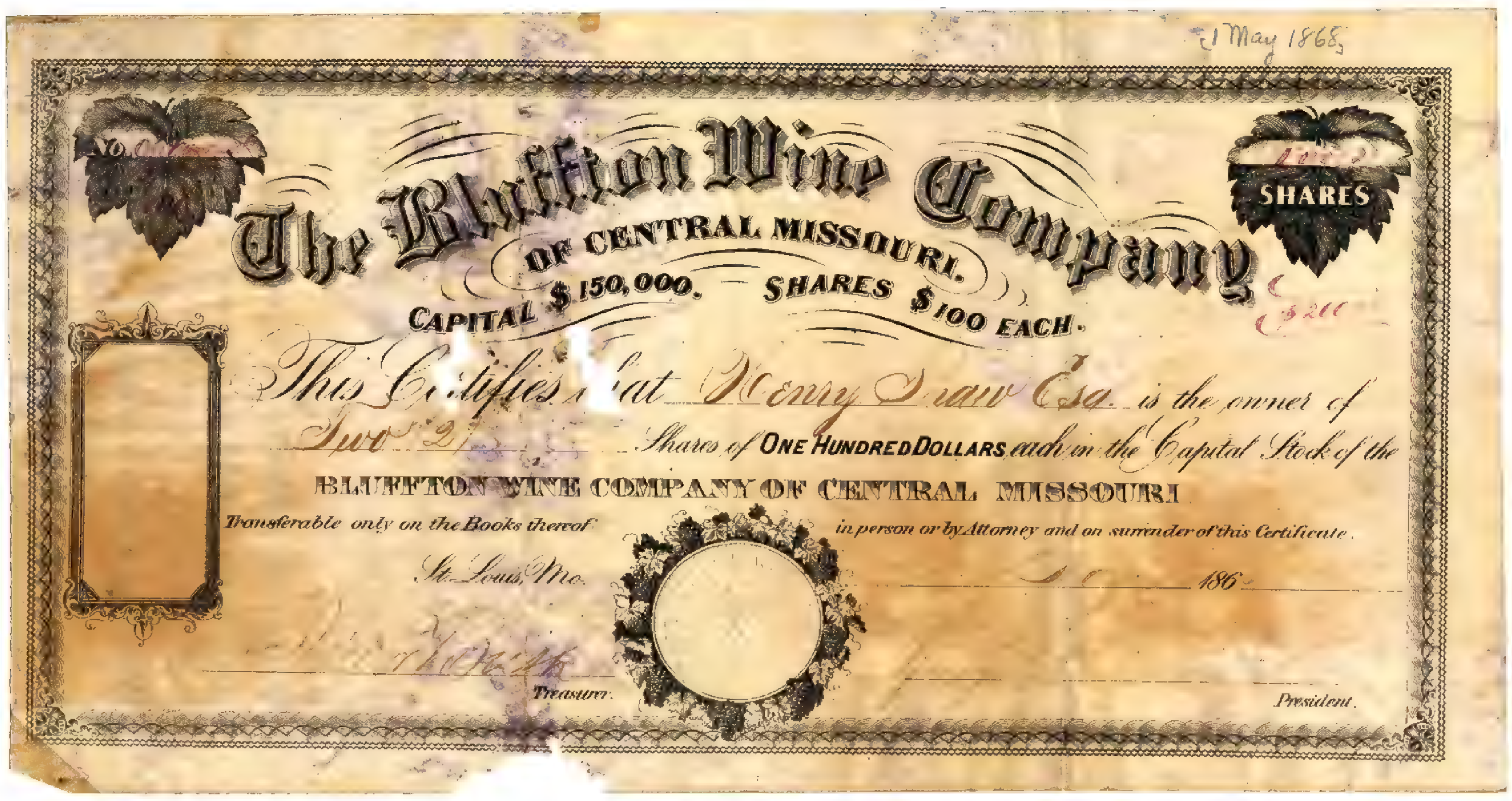
His extensive wine collection probably wouldn't have been discovered had an inventory not been done after his death in 1889 to carry out his will. It's not known when he started collecting wine, says Garden Archivist Andrew Colligan, but some of the earliest receipts show that he purchased wine as early as 1824, long before he built Tower Grove House.

Today, it's hard to know what happened to his wine collection. What is known is that his love of wine was profound: not only did his collection contain more than 3,000 bottles, but he also studied and wrote about wine and grapevines in his book *The Vine and Civilisation* (sic) in 1884. "He who has a good cellar well filled cannot too soon make himself acquainted with its management, and with the history of that beverage, which," he writes, "used in due moderation, may be reckoned among the most precious gifts of heaven to the temperate and rational man."

In *The Vine and Civilisation*, Shaw explains the history of wine, its qualities and production in different parts of the world—from France to Spain to China to Argentina—and his advice for enjoying it. "Taste for good wine, like music and painting, is not attained without cultivation and long experience," he writes.

His cellar included Cognac, liqueurs, whiskey, rum, beer, and of course, wine. He had some German wines, but most came from France: Champagne, Burgundy, many from Sauternes and Barsac, and most impressively, more than 800 bottles from the Bordeaux region. "Dipping into the Garden's archives, we find that Henry Shaw was clearly a wine connoisseur and a generous host who stocked his cellar with some of the finest wines available anywhere in the world at that time," says Garden President and wine connoisseur Dr. Peter Wyse Jackson. The Bordeaux wines include names that today are among the best in the world, says Dr. Wyse Jackson, including Chateau Mouton-Rothschild and Chateau Kirwan.

A surviving bottle of sherry, bearing Henry Shaw's Tower Grove label, that is now kept at the Missouri History Museum in St. Louis. (photo by Andrew Colligan)



1 May 1868

No.

Two

SHARES

The Bluffton Wine Company
OF CENTRAL MISSOURI.
CAPITAL $150,000. SHARES $100 EACH.

$200

This C[illegible]tifies [illegible]at Henry Shaw Esq. is the owner of Two "2" Shares of ONE HUNDRED DOLLARS each in the Capital Stock of the
BLUFFTON WINE COMPANY OF CENTRAL MISSOURI
Transferable only on the Books thereof in person or by Attorney and on surrender of this Certificate.

St. Louis, Mo. 186

Treasurer. President.

(Left) Among the documents residing in the Garden's Archives showing Henry Shaw's interest in wine is this certificate, dated May 1868, for the purchase of two stock shares in the Bluffton Wine Company of Central Missouri. (Right) A *Vitis riparia* rootstock starts showing signs of bloom in one of the Garden's greenhouses as it awaits planting in the experimental gardens in the Center For Home Gardening. (photo by Andrew Dolinky)

Grapevines and Science

Henry Shaw also wrote about the conditions that grapevines require to produce good wine. "The first requisite to make good wine seems to be a peculiar quality in the soil in which the fruit is grown, more than the species of vine itself," he writes. "The second requisite to good wine is to select the species of vine best suited to the soil, aided by a judicious mode of training and cultivation." He also writes about the ideal temperatures to grow grapevines: annual mean temperatures between 50°F and 63°F, or as low as 48°F provided the summer temperatures rise to a mean of 68°F.

It is this fine temperature balance for grapevine growth that the Horticulture team at the Missouri Botanical Garden will be studying in the next few years in one of the experimental gardens in the William T. Kemper Center for Home Gardening. The project is being done in partnership with Saint Louis University, its Center for Sustainability, and the U.S. Department of Agriculture–Grape Genetics Research Unit. Missouri-native grapes present an excellent opportunity to study the impact that rising temperatures have on crops: they have developed a resistance to extremely hot and humid summers, cold winters, and pests that attack the plant during the highest temperatures. St. Louis also provides the perfect setting for this research because its "urban heat island" temperatures (up to 4°F warmer than its surroundings) imitate the projected climate conditions.

Scientists and horticulturists will be monitoring two native Missouri grapevine species: *Vitis riparia* Michx. and *Vitis rupestris* Scheele. The grapes will be checked about six times a year for physical responses to weather stress as well as changes in their genetic expression. The purpose of the experiment is to understand how different yet closely related species respond to stressful environmental conditions and to help develop sustainable agriculture practices for the future.

True or False: American Grapes Saved French Wine?

True. George Engelmann, Henry Shaw's scientific advisor and close friend, played a key role in saving the wine industry in the 19th century. During the 1860s and 1870s, the pest *Phylloxera vastatrix* almost wiped out the entire population of *Vitis vinifera* in France, the most important species used in commercial wine production in the world. When French scientists discovered that the louse was from the United States, they studied American species to find the one that would be the most resistant to *Phylloxera vastatrix*. Their travels brought them to St. Louis, where entomologist Charles V. Riley was studying the insect's life cycle. Both Riley and French scientist Pierre-Alexis Millardet consulted Engelmann because he had studied native grapevines. Engelmann showed Millardet one species to graft with French grapevines: *Vitis riparia*. He even sent hundreds of thousands of seeds collected along the Mississippi Valley to France. The plan worked, and the wine industry was saved.

What's in a Word?

Quick Guide to Food Label Terminology

G	E	M	J	O	V	L	G	W	G	F	W	K	C	R	V	L	O	Z	I	H
M	D	D	H	N	D	W	Y	H	Z	G	K	I	I	V	H	Y	X	O	T	O
E	R	X	V	K	D	K	C	P	R	M	W	J	N	K	O	L	Y	K	L	R
S	L	A	R	M	R	T	K	U	T	C	L	Z	A	J	F	E	R	A	W	K
T	S	S	B	L	S	Q	C	L	V	F	Q	A	G	A	S	Y	C	M	S	J
E	N	E	L	B	A	N	I	A	T	S	U	S	R	N	H	O	Q	S	L	B
Z	C	G	W	U	C	N	S	O	B	V	I	H	O	U	L	G	I	W	Y	U
M	L	L	Z	C	D	T	Z	Q	H	I	N	Q	V	R	T	B	M	Z	I	D
O	H	X	U	J	V	R	P	B	P	X	P	I	G	Z	R	A	G	Z	M	F
R	W	P	U	R	G	R	F	J	I	G	D	V	I	B	J	O	N	P	N	R

It's getting hard to keep track of all the terms used on food products nowadays. With the line between savvy marketing terms and reliable food labeling becoming blurrier by the minute, it's important to know what these terms mean. Here are some of the most common terms you'll find at the supermarket, farmers' market, or local store.

Hint: Four of these are in the Word Search

Cage-free

Usually referring to poultry, this term means the animals are not caged up and have space to roam. This space, however, may not be very large, and the animals are often kept in hen houses.

Certified Naturally Grown

An alternative to the U.S. Department of Agriculture (USDA) organic certification, this term applies to products grown with organic practices and refers to a program where farmers inspect one another's farms.

Free-range

Usually referring to poultry, the term means that the animals are free to roam on the farm and eat the pasture during the day. They're usually moved inside at night to protect them from predators.

Local

There is no official geographic boundary that the USDA uses to label "local," but it's generally used to define farmers selling food directly to consumers. To be considered local, food commonly travels no more than 150 miles.

Natural

According to the USDA, the term applies to products that contain no artificial ingredients or added color and are minimally processed. The label must explain the use of the term "natural."

Organic

To be certified "organic" by the USDA, farmers use sustainable practices including crop rotation and don't use chemical fertilizers or pesticides, synthetic drugs, ionizing irradiation, or genetic engineering.

Pasture-raised/Grass-fed

This term applies to cattle, poultry, and other herd animals, and it means that they eat pasture during the warm months and hay and silage during the colder months throughout their lives. Don't be misled by a claim of "grass-fed" meat—these animals all start out eating grass. "Grass-finished" refers to the animals eating grass, wild plants, dried hay, and silage throughout their lives. "Grain-finished" means they ate forage throughout their lives up until the final month(s) when they were "finished" on grain.

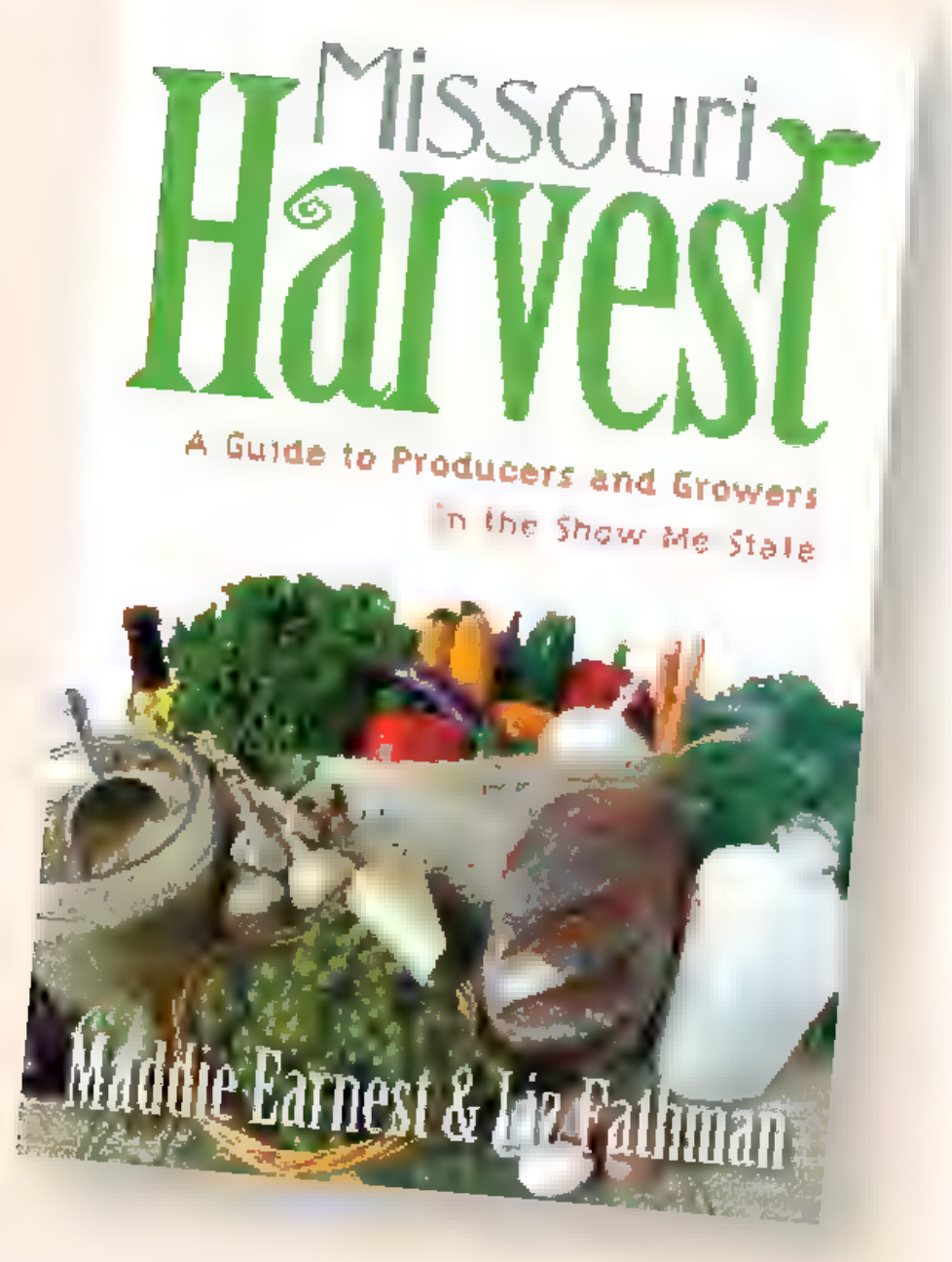
Sustainable

The USDA defines "sustainable agriculture" as an integrated system of plant and animal production practices that, among other things, enhance environmental quality, make the most efficient use of nonrenewable resources and farm resources, and integrate natural biological cycles and controls.

For more information, visit these helpful resources online:

www.greenerchoices.org
www.localharvest.org
www.usda.gov/knowyourfarmer

Get cooking!


Missouri Harvest
A Guide to Producers and Growers in the Show-Me State
Maddie Earnest & Liz Fathman

Join "Eating Local with the Authors of *Missouri Harvest* Series," a set of monthly classes this summer with samples, tips, cooking demonstrations, and recipes that make the most of your locally produced foods. For more information and to register, visit **www.mobot.org/classes**. And don't forget to pick up your copy of *Missouri Harvest* at the Garden Gate Shop.

Not only pretty to look at, the flashing signals that fireflies display at night are a form of communication during their mating season. (photo by Tsuneaki Hiramatsu)

Exploring Our Living Lanterns

By Chris Hartley, Coordinator of Education Programs

firefly festival

Wednesdays, June 5, 12, 19, 8 to 9:30 p.m.

Learn about fireflies and light up the field with a flashlight show in celebration of their twinkling lights. Please bring one flashlight per person. $8 Garden members; $10 nonmembers; free for children under 3. Preregistration required: **www.mobot.org/classes**

Save the Date

Saturday, September 28

Please call (314) 577-0291.

Wing Ding

Fireflies are one of Earth's most magical creatures. They have inspired many cultures with stories of love, hope, and spiritual renewal. Throughout the world, festivals are held to celebrate their arrival each summer. It is in the spirit of these global celebrations that the Butterfly House offers its Firefly Festival on the first three Wednesday evenings in June from 8 to 9:30 p.m.

The biology of these living lanterns is even more fascinating than the folklore. Fireflies are a type of beetle. The flying individuals are males attempting to find females sitting in grass or other low vegetation. The flashes that give them their name are communication signals delivered in a specific pattern for each species. Females watch for this signal and answer with a flash of their own to show the males they are ready to mate. The flashes have a message for predators also—"leave us alone." Most fireflies are very toxic if eaten. They contain substances that are chemically similar to poisons found in some toads. Thus, they are safe from most predators. The larvae of some species can flash also, though they are more likely to produce consistent glows. This behavior has earned them the name "glowworms."

Firefly larvae are predators of other arthropods, snails, or slugs. Some firefly larvae have specialized mouthparts that allow them to wrest snails from their shells. Most adult fireflies feed on pollen or nectar, but predation does exist in their adult years as well. Some adult female fireflies are known to mimic the flashes of another species so they can lure males and eat them. This behavior has earned them the nickname "femme fatale fireflies."

The Firefly Festival will celebrate the beauty of these wondrous creatures. Participants will learn about the role of fireflies in nature and make a firefly craft that really lights up. Then, they will head outside with their "fireflies" for a homemade light show. For more, visit **www.butterflyhouse.org**.

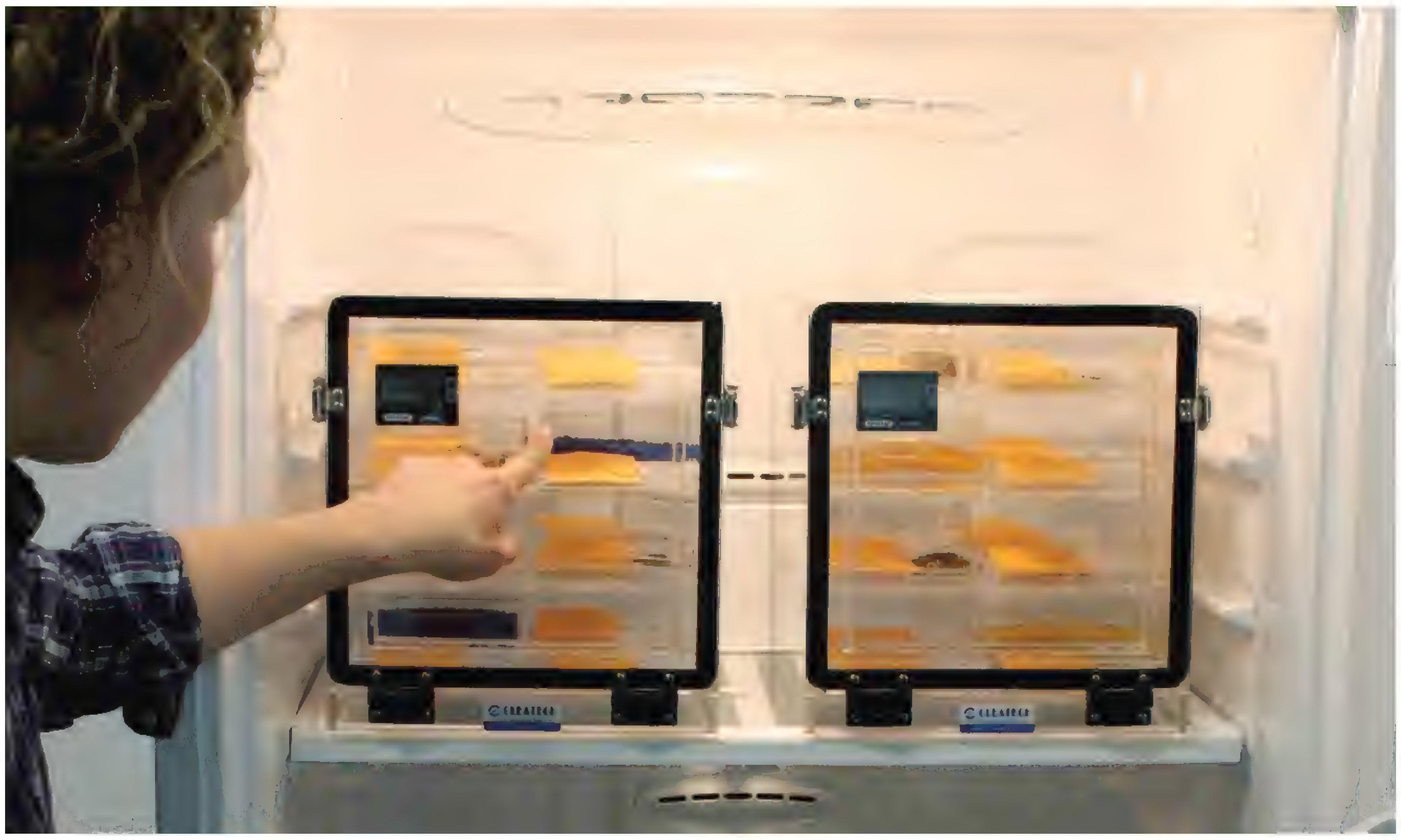
Conservation: One Seed At a Time

By Ginger Allington, Seed Bank Manager

Ecosystems around the globe are facing intense pressure from habitat loss, changing climate, and invasive species—all of which threaten the viability of plant populations. With the strains on natural ecosystems increasing every year, many conservation organizations are looking for ways to supplement on-the-ground plant conservation efforts. One valuable conservation tool is seed banking.

This year the Missouri Botanical Garden is expanding and strengthening its regional and international plant conservation efforts with a new Seed Bank program. Seed banks are long-term storage facilities where seeds are dried and stored at low temperatures in order to preserve them for future conservation and restoration uses. They enable us to conserve a high level of genetic diversity of a large number of species within a relatively small amount of space.

The Seed Bank facility is located at the Shaw Nature Reserve. Support for the initial setup and physical infrastructure, including a backup generator for the storage freezers in the event of a power outage, has been provided by generous donations from Ann L. Case, Dr. and Mrs. William S. Knowles, the Edward K. Love Conservation Foundation, Mr. David T. Orthwein, and Mr. Blanton J. Whitmire.



After seeds are collected and cleaned, they are dried in desiccator cabinets, packaged in four-ply foil bags, and stored in freezers. (photo by Andrew Dolinky)

The Seed Bank's first goal is to support the integration of existing programs within the Garden. It will protect the viability of wild-collected seed that has been gathered by Horticulture and Research staff on their projects around the world. Seed Bank staff will collaborate with and support ongoing efforts by the Center for Conservation and Sustainable Development to conserve the imperiled flora of the southeastern United States. It will also support the horticultural plant development and restoration objectives of the Reserve by collaborating on the collection and storage of seeds of regional native plants.

The second goal of the Seed Bank is to collect and store the entire Missouri eco-regional flora by 2020. The first phase of this project is focused on the Ozarks. The unique geologic history and habitat complexity of the Ozarks make the region home to many endemic species and a hub of plant diversity.

Factors that we consider when prioritizing plant species for seed collection include habitat, horticultural value, and conservation status. We also consider storage behavior, or the seed's ability to be dried to low moisture levels and stored at low temperatures. These so-called "orthodox" species are ideally suited for seed banking. Species with seeds that cannot be dried will be preserved via alternate methods, such as cryopreservation at partner institutions or propagation for use in the Garden's living collections. This combination of conservation methods highlights the importance of seed banks and living collections working together to preserve plant material for the future.

Tributes

January through March 2013

A tribute gift to the Garden is a wonderful way to honor family and friends. Tributes of $25 or more are listed in the *Bulletin*. If you have questions regarding giving opportunities at the Garden, please call (314) 577-0805. You can also make a tribute gift online at our website, **www.mobot.org**.

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Mr. and Mrs. William Wolff

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Dr. Richard D. Brasington and Ms. Kathleen M. Ferrell
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Mr. and Mrs. Oliver Lange
Mr. and Mrs. David Witte

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Mr. and Mrs. Joseph Glik
Ms. Karen F. Goodhope
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Mr. and Mrs. Robert R. Hermann
Mrs. Anne W. Hetlage
Mr. and Mrs. Jerry Hollenbeck
Mr. and Mrs. Henry O. Johnston
Dr. and Mrs. Michael Kass
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Mr. and Mrs. Roger Koch
Dr. and Mrs. Ira J. Kodner
Christopher and Dawn Lissner
Mrs. Mary R. Loire
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Mr. and Mrs. Henry F. Luepke, Jr.
Ms. Phyllis Maritz
Mrs. Frances Thomas Martin
Mr. and Mrs. L. C. Matthews, Jr.

photo by Heather Marie Osborn

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Mr. Harvard W. Muhm and Ms. Judy Glik
Mr. and Mrs. Patrick Murphy
Ms. Pat Payton and Ms. Jean Hudson
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Dr. and Mrs. Steven Plax
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Mr. Ken Streett
Ms. Lee S. Streett
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Mr. and Mrs. George A. Howells
Investment Management Consultants Association
Mr. and Mrs. Michael Zarich

Mr. Leo G. Peck
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Ms. Carol Phillips
Larry and Nancy Kirchhoff
Mrs. Patricia Schutte

Mr. William G. Pitcher
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Mrs. Regina "Jeannie" Potter
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Mrs. Cordelia W. Holmes
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Litzsinger Road Ecology Foundation
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Ruth Elizabeth Priestley
Ms. Linda Rose

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Mr. Gerald Raftery
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Ms. Florence S. Ragaini
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Francis Chang and Leslie A. Kim
Ms. Teresita C. Cheuk
The Comegys', The Cracchiolo's, and The Wehrmann's
Mr. Calvin T. Curtis
Mr. and Mrs. Salvatore Cusumano
Mr. and Mrs. Anthony D. Daus, Jr.
Dr. and Mrs. Jeffrey M. Dicke
Mr. James F. Evans III
Jack and Joann Folluo
Mr. and Mrs. Richard Gatzke
Ms. Barbara Gianino
Dr. Ralph Gieselman
Ms. JoAnn Hediger
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Mr. and Mrs. Roy Hortiz
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Ms. Michele Jones
Dr. and Mrs. Lawrence Kahn
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Dr. and Mrs. Phillip Korenblat
Denise H. Kung
Mr. and Mrs. Bruce Lancaster
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Mrs. Marlene Matsuoka
Dr. and Mrs. Peter K. Matsuoka
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Missouri Baptist Medical Center
Mr. Patrick Murphy
Mr. and Mrs. Michael Nelson
Dr. and Mrs. John Niemeyer
Mr. and Mrs. Sanford L. Noe
Mr. and Mrs. William Noonan
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Mr. Steven Rettke
Ms. Ellyn J. Rosenblum
The Phil Rosenblum family
The Schriefer family
Ms. Sally Schwartze
Homer and Maggie Sedighi
Dr. and Mrs. Lari D. Slane
Mrs. Elinor G. Slosberg
Mr. and Mrs. Leo Soohoo
Ms. Mae L. Soohoo
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St. Louis Pediatric Associates, Inc.
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Mrs. Loretta D. Schaefer
Mr. and Mrs. Andy Baldridge
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Mr. and Mrs. Ray Danner
Mr. and Mrs. Mike Delaney
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Ms. Lorraine Rau
Robin Hood Neighborhood Association
Mr. and Mrs. Gerald Witte
Mr. and Mrs. Wilmar Woelzlein

Ms. Nancy Schikore
Mr. and Mrs. John Uhlhorn

Miss Dolores A. Schloemer
Rev. Bernard J. Schloemer

Mr. John F. Schweiss
Mrs. Mary V. Schweiss

Mrs. Michi Shingu
Harry, Dennis, and Joyce Hayashi

Delores June Singer
David Rifkin and Janice Rifkin

Mr. Robert L. Skrainka
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Mr. Robert Ludwig and Ms. Joan Ryder
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Mr. and Mrs. Jerome Sandweiss
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Ms. Miriam G. Wilhelm
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Mrs. Barbara C. Smith
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Mrs. Edna "Micki" Smith
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Ms. Diane Dymond
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Mrs. Rena E. Hale

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Mr. and Mrs. David Huntley

Mrs. Dinty F. Wittsch
Mr. and Mrs. Rob Patterson

Mrs. Bernadine Winter
Mr. and Mrs. Carl L. Hermann

photo by Sonia Lalla

Sophia M. Sachs Butterfly House Tributes & Pavers

Tributes and Pavers dedicated at the Butterfly House January through March 2013. To learn more about these opportunities, call (314) 577-0291 or visit **www.butterflyhouse.org**.

Tributes In Memory of

Ms. Sharon L. Weiser
Area Agency on Aging for Lincolnland

Pavers

Adam Brown
Grandma Preston

Angelo R. Ciccolella
Mr. and Mrs. Salvatore P. Ciccolella
Jessica Ciccolella-Kahl
Paul Ciccolella

Richard J. Feld
Meril, Mary Ann, Denise, and Kim

George Guelker
Mrs. Kathleen M. Mathews

Jeffrey T. Helfrich
Michele Helfrich

Karen King
The Ritenour Girls

Lyla Klinge
Mr. and Mrs. David W. Klinge

Robert F. Leu
The Goebel Gang

Dana Nicole Maysey
Michelle Icaza

Judy McLain
River Valley Garden Club

Pauline Oshima
Shara Patton

Hannah Marie Quirk
Crossroads Elementary School Classmates

John Reiner
Mr. David Reiner and Ms. Cathy Maris

Eve Sanders
Mr. and Mrs. Wayne Sanders and Family

Rose Wayne
River Valley Garden Club

Jamie Woodruff
Ritenour Friends

Members' Entry Court

Bricks dedicated at the Garden January through March 2013. Engraved bricks are a wonderful way to commemorate any special occasion, as well as final memorials. For additional information regarding the Garden's brick program, please contact the Institutional Advancement Office at (314) 577-0291 or visit **www.mobot.org**.

Signature Bronze Bricks

Charles and Jennifer Duran Family
Mr. John E. Walton

Vivian Yvonne Ann-Di Lee
Lillian Rose Ren-Di Lee
Patrick K. Lee

Richard Herman Preuss
Mrs. Filomena J. Preuss

Baby Boy Springer
Joey and Melanie Springer
James F. Ranii

Todd and Debbie Stewart Family
Mr. John E. Walton

Martha and John Walton
Mr. John E. Walton

Engraved Clay Bricks

Lydia Andrews
Emily Andrews

Marion H. Baker
Mr. and Mrs. Michael A. Cracchiolo

Whitney Ballsrud and Kevin Coombs
Steve MacDonald
Bart and Jean MacDonald

Dr. Kent E. Bruder
Nancy Bruder
Phyllis Gustafson
Gregory and La Donne Witt

Nadine Day
Grace Truemper

Edwardsville Garden Club
Edwardsville Garden Club

Brennan Nischwitz
Mr. and Mrs. Daniel E. Rieman

Kieran Nischwitz
Mr. and Mrs. Daniel E. Rieman

Hadley Quade
Mr. and Mrs. J. Richard Pine

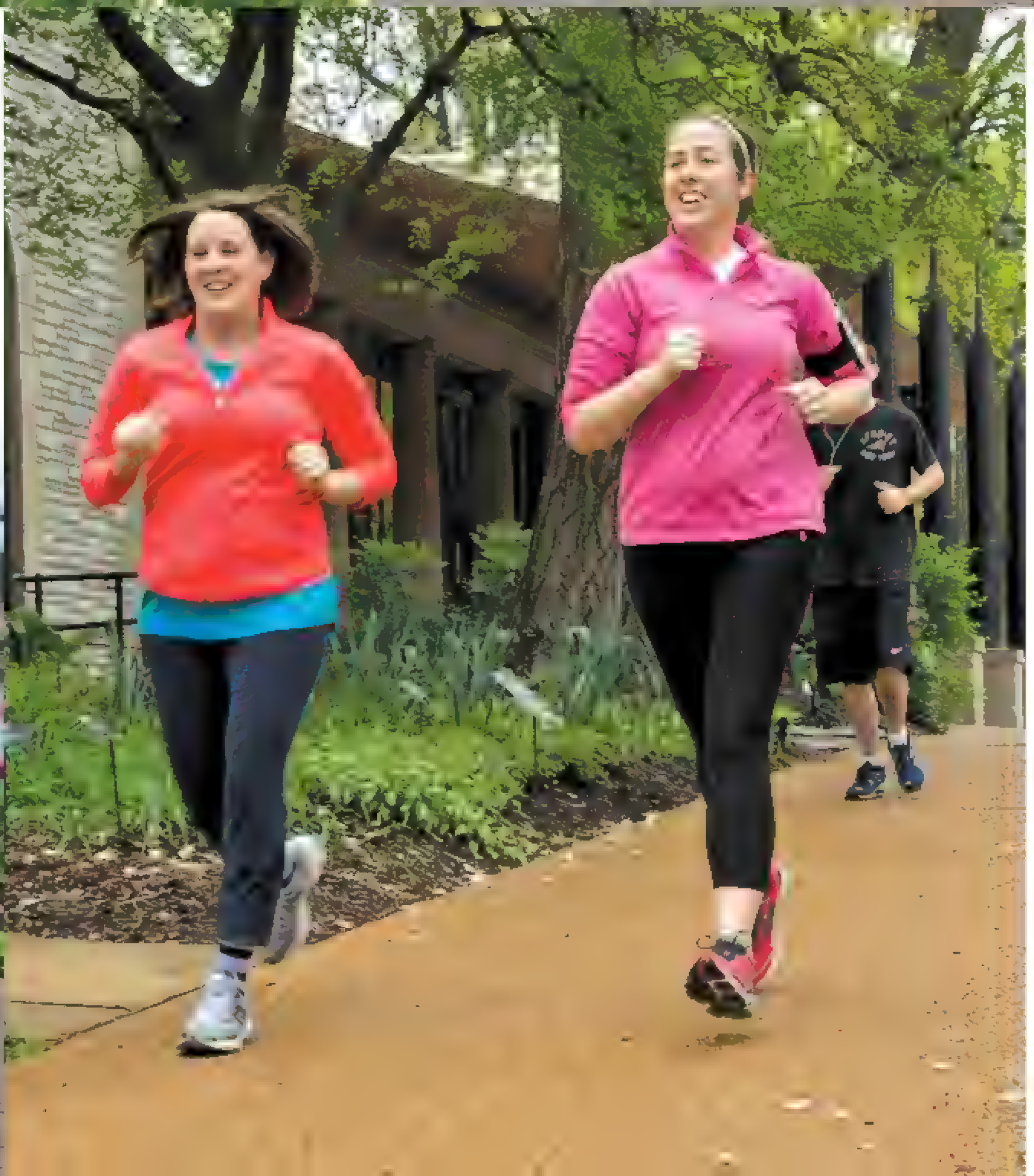
Helen and Charles Robinson
Barbara and Lonnie Bailey
Susan and Ken Coumerilh
Amber and Joshua Hardin
Linda and David Hardin
Patricia and Donald Hardin
Christine and Tim Kendrick
Heather and Ross MacGarvey
Mary and Jerrry Robinson
Stacey and Robert Watson
Janet Williams

Seen at the Garden

Eggstravaganza

March 23, 2013
Presented by Peabody Energy.
More than 1,800 people attended the annual event filled with egg hunting, prizes, and visits by the Garden Bunny.

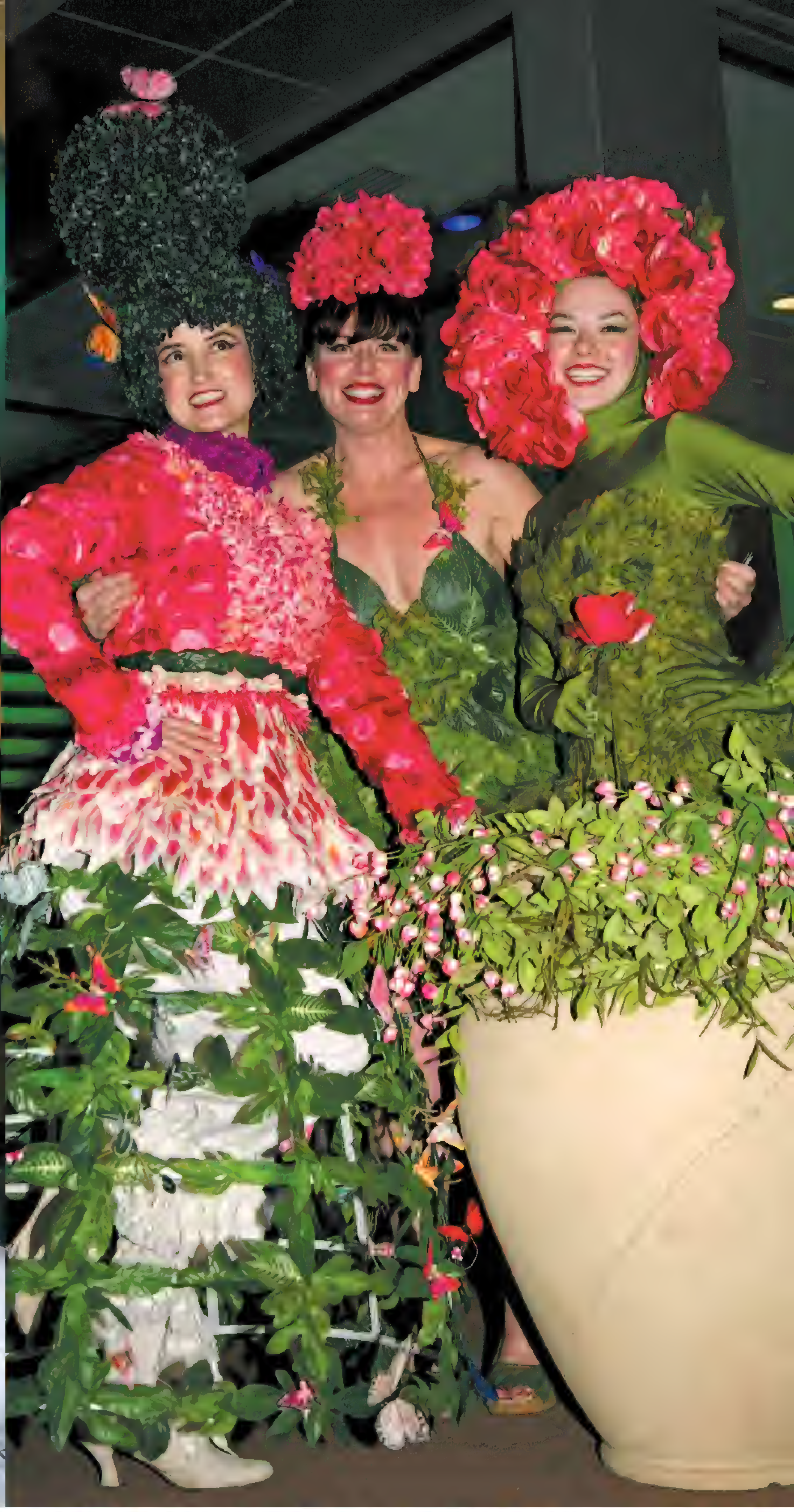
(photos by Amanda Attarian)



Tulip Trot

April 28, 2013
Presented by Macy's.
This sold-out event brought more than 500 people to enjoy a rare opportunity to run in the Garden. Runners explored the 5K course as they welcomed spring.

(photos by Mary Lou Olson)



Green Ball

April 26, 2013

Presented by Moonrise Hotel. More than 350 people attended the fourth annual event to support the Garden's EarthWays Center. Guests enjoyed locally sourced food, cocktails, live music, and the popular Green Fashion Contest.

(photos by Heather Marie Osborn)

Grapes and the Garden

May 3, 2013

Presented by Schnuck Markets, Inc. About 900 people attended the evening event where guests were treated to nearly 200 wines for sampling, hors d'oeuvres, and live entertainment.

(photos by Kevin Kersting)

Events

FOOD
OLOGY
dig in!

Digging In to the Roots of Our Food

April to December, 9 a.m. to 5 p.m., Brookings Center
This fun, hands-on, interactive exhibit will challenge visitors of all ages to explore what they eat in ways that spark curiosity, ignite ideas, and inspire action. Included with Garden admission.

Corporate Partners Day

Sunday, June 2, 9 a.m. to 5 p.m.
Employees of the Garden's Corporate Partner firms receive free daytime admission for two adults and all children ages 12 and under with a valid corporate ID. Enjoy a 20 percent discount on new or upgraded Garden memberships and a 10 percent discount on purchases at the Garden Gate Shop.

Illinois Appreciation Week

June 9 through 15
Illinois residents receive half-price daytime Missouri Botanical Garden admission (a $4 value) from 9 a.m. to 5 p.m.; a 10 percent discount in the Garden Gate Shop and Little Shop Around the Corner; and a 20 percent discount off new or gift memberships purchased on-site.

Pollinator Picnics

Sundays, June 16, July 14, and August 18, 11 a.m. to 3 p.m., Butterfly House
Join the party to celebrate Missouri's pollinators featuring games, activities, and food from Local Harvest. $18 members; $20 nonmembers; $13 members' children; $15 nonmembers' children. Registration required: **www.butterflyhouse.org**.

Whitaker Music Festival

Wednesdays, June 5 – August 7

Concerts at 7:30 p.m.

Free admission after 5 p.m.

June

5 Funky Butt Brass Band
12 Terence Blanchard
19 Kim Massie
26 Ransom Note

July

3 Beth Bombara
10 Victor & Penny
17 Montez Coleman/ Willie Akins Project
24 Sarah Jane and the Blue Notes
31 Big George Brock

August

7 The Scandaleros

Funded by
WHITAKER FOUNDATION

Henry Shaw Cactus and Succulent Society Show and Sale

Saturday, June 29, noon to 5 p.m. and Sunday, June 30, 9 a.m. to 5 p.m., Beaumont Room
Choose from a wide array of cacti and succulents shown and sold by the area's top growers. Included with Garden admission.

Family Night Hike Adventure

Friday, July 12, 6:30 to 9 p.m, Shaw Nature Reserve
Learn about animals that are active during dusk and hike down to the Meramec River gravelbar to explore and enjoy a campfire treat. $8 members; $10 nonmembers. Advance registration required: www.mobot.org/classes or (314) 577-5140.

HAPPY
BIRTHDAY,
HENRY!

Henry Shaw's Birthday

Wednesday, July 24, 9 a.m. to 5 p.m.
Celebrate Garden founder Henry Shaw's 213th birthday with free admission for all visitors.

Desert Show: Plants and People of the Western U.S. Deserts

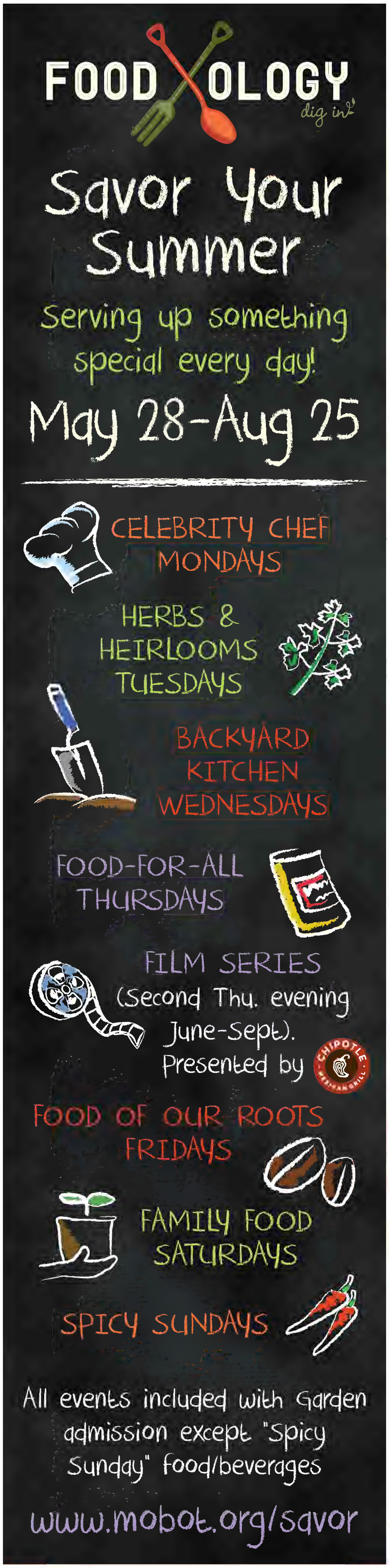
June 29 through August 4
See page 5 for more information. Garden admission plus $5; free for Garden members.
Sponsorship provided by the Henry Shaw Cactus and Succulent Society.

Greater St. Louis Iris Society Sale

Saturday and Sunday, August 17–18, 9 a.m. to 5 p.m., Beaumont Room
Shop new cultivars and old favorites shown by the area's top growers, who are on hand to give plant care advice and share information about their organization. Included with Garden admission.

Missouri Botanical Garden Daylily Association Sale

Saturday, August 24, 9 a.m. to 5 p.m., Orthwein Floral Display Hall
Shop new cultivars and old favorites shown by the area's top growers, who are on hand to give plant care advice and share information about their organization. Included with Garden admission.



FOODOLOGY
dig in!

Savor Your Summer

serving up something special every day!

May 28–Aug 25

CELEBRITY CHEF MONDAYS

HERBS & HEIRLOOMS TUESDAYS

BACKYARD KITCHEN WEDNESDAYS

FOOD-FOR-ALL THURSDAYS

FILM SERIES (Second Thu. evening June-Sept). Presented by CHIPOTLE MEXICAN GRILL

FOOD OF OUR ROOTS FRIDAYS

FAMILY FOOD SATURDAYS

SPICY SUNDAYS

All events included with Garden admission except "Spicy Sunday" food/beverages

www.mobot.org/savor

photos by Kelly Hall and Sonya Buerck

Join the Club

Conservation Club members enjoyed a day exploring nesting places for bluebirds along with Shaw Nature Reserve experts on Wednesday, May 1.

Want to learn more about the Garden's work to conserve plants? Join the Conservation Club, exclusively for Garden members, and receive invitations to conservation-focused events throughout the year. Learn more at the Membership Services Desk or call (314) 577-5118.

JUST FOR MEMBERS

Members' Day: Musical Evening

Friday, June 21, 5:30 p.m., Spoehrer Plaza
Bring a lawn chair and picnic basket and enjoy live music by the Gateway City Big Band and dancing by the swing dancers from Bishop DuBourg High School. For more information, email **membership@mobot.org**.

Members' Event: Desert Show Preview

Friday, June 28, 5 p.m., Orthwein Floral Display Hall
This special night includes members-only viewing of the Garden's new floral show with cacti from the Garden's rarely seen permanent collection. The evening also features discounts at Sassafras and the Garden Gate Shop and a cash bar. Admission is free.

Members' Day: Herbarium and Library Tour

Tuesday, July 16, 10 a.m., Monsanto Center
Tour the Garden's rarely seen Herbarium and Library with Library Director Doug Holland and Herbarium Curator Dr. Jim Solomon. Observe millions of plant specimens preserved alongside books dating back to the 1700s. Reservations required and space is limited: **www.mobot.org/events** or (314) 577-9570.

Members' Event: Family Picnic

Thursday, July 18, 5:30 p.m.
Join us for one of our favorite summer evening events. Bring a picnic and enjoy music, entertainment, face painters, crafts, balloon artists, and a chance to play in the Children's Garden after hours. Reservations required: **www.mobot.org/events** or (314) 577-9570.

Presented by Peabody Energy.

June 2013

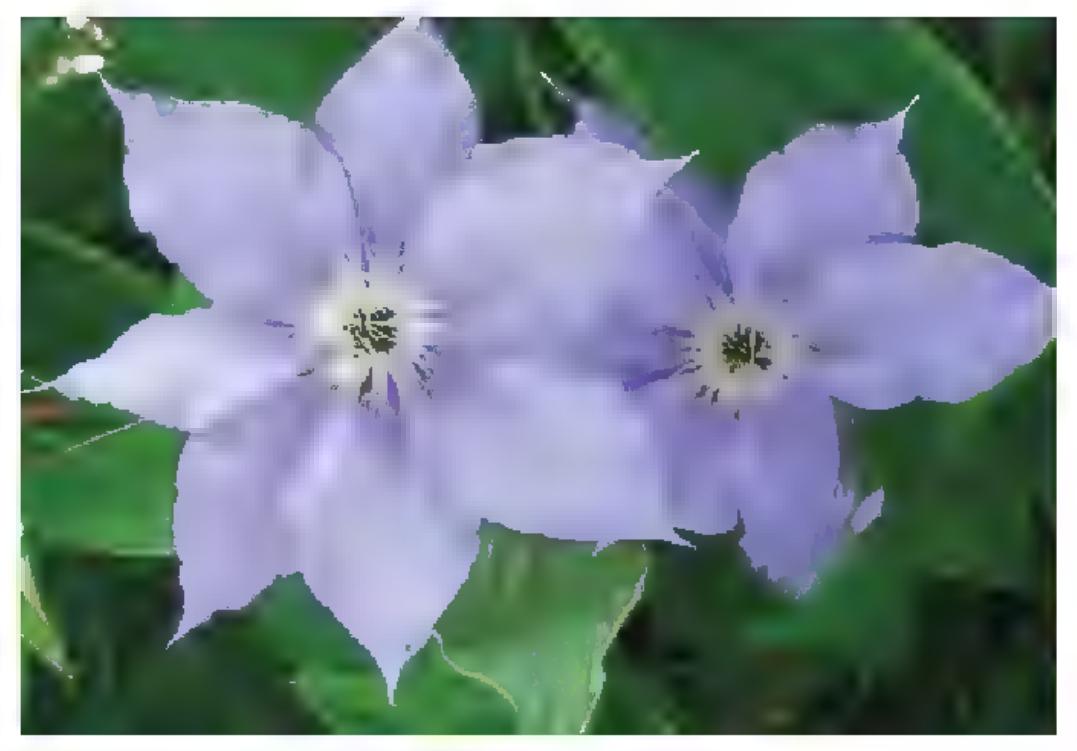
average temperature: low 67°, high 85°
average precipitation: 4.3 in.

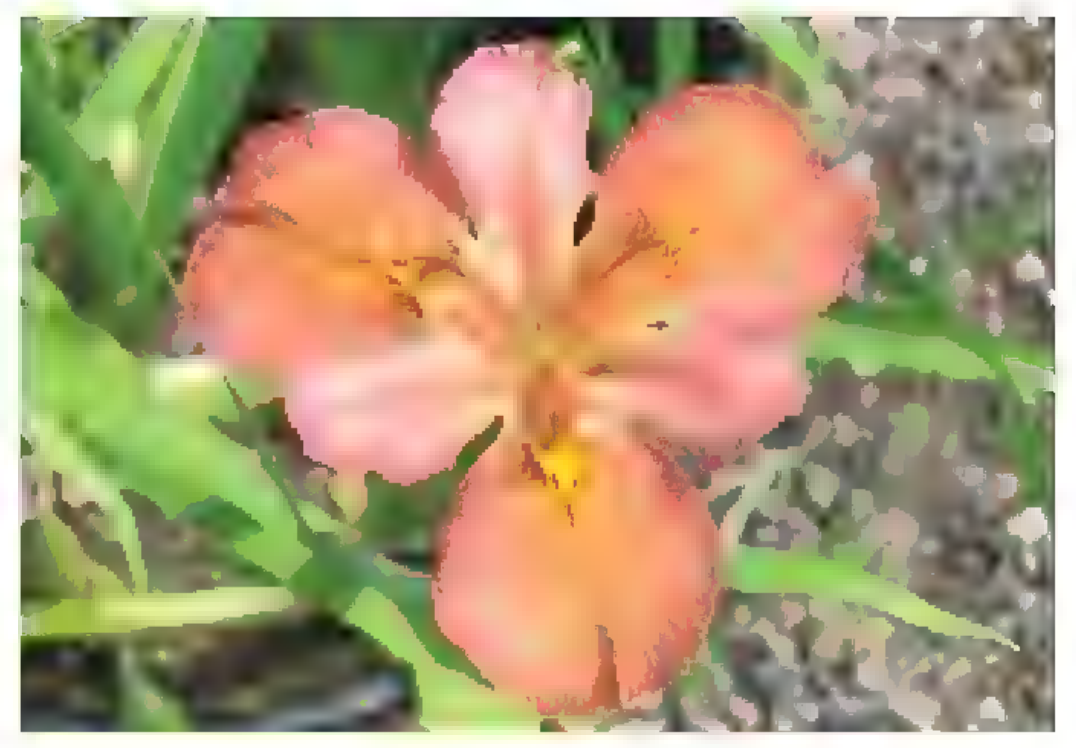
What's in bloom?

Highbush blueberry

Yarrow

Orienpet lily


Clematis


Iris "Coop de Ville"

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Savor Your Summer Serving up something special every day! www.mobot.org/savor	**KEY** (All events take place at the Garden unless otherwise noted.) BH Butterfly House CA Cohen Amphitheater CBEC Commerce Bank Center for Science Education CHD Children's Garden CL Climatron lawn GGS Garden Gate Shop JE Jordan Education Wing in the Visitor Center KC Kemper Center for Home Gardening LS Little Shop Around The Corner MB Madame Butterfly Gift Shop MC Monsanto Center MH Monsanto Hall in Ridgway Visitor Center RVC Ridgway Visitor Center SNR Shaw Nature Reserve SP Spink Pavilion ST Shoenberg Theater in Ridgway Visitor Center 🌱 Sassafras ✿ Members-only event ☎ Reservations required $ Fee required			 **Desert Show:** ***Plants and People of the Western U.S. Deserts*** *June 29 through August 4*		1 ■ Chocolate Chocolate Chocolate tasting, RVC
2 ■ Corporate Partners Day	3	4 ✿ Members-only Evening Strolling Hours, 5 to 8 p.m.	5 Whitaker Music Festival ■ Firefly Festival, 8 to 9:30 p.m. $ ☎ BH ■ Funky Butt Brass Band 7:30 p.m. CA	6	7	8 ■ Billy Goat Chips tasting, RVC
9 **Illinois Appreciation Week, through June 15**	10	11 ✿ Members-only Evening Strolling Hours, 5 to 8 p.m.	12 Whitaker Music Festival ■ Firefly Festival, 8 to 9:30 p.m. $ ☎ BH ■ Terence Blanchard 7:30 p.m. CA	13 ■ Foodology Film Series: *In Organic We Trust*, 7 to 9 p.m. ■ Native Plant School: Garden Archaeology and Ethnobotany, 1 to 4 p.m. $ ☎ SNR	14 **FLAG DAY** ■ Little House: Food and Crafts Overnight, 7 p.m. through Sat., June 15 at 11 a.m. $ ☎ SNR ■ Bissinger's tasting, RVC	15 ■ Great Green Adventures: George Washington Carver, 10:30 a.m. and 1:30 p.m., $ CHD ■ Healthy Harvest/Olea Estates tasting, RVC
16 **FATHER'S DAY** ■ Pollinator Picnics, 11 a.m. to 3 p.m. $ ☎ BH	17	18 ✿ Members-only Evening Strolling Hours, 5 to 8 p.m.	19 Whitaker Music Festival ■ Firefly Festival, 8 to 9:30 p.m. $ ☎ BH ■ Kim Massie 7:30 p.m. CA	20	21 ✿ Members' Day: Musical Evening, 5:30 p.m. ■ Around the World Wine Dinner, 6:30 p.m. $ ☎	22 ■ Kuva Coffee tasting, RVC
23 30 ■ Henry Shaw Cactus and Succulent Society Show and Sale, 9 a.m. to 5 p.m., RVC	24	25 ✿ Members-only Evening Strolling Hours, 5 to 8 p.m.	26 Whitaker Music Festival Ransom Note 7:30 p.m. CA	27	28 ✿ Desert Show Preview, 5 p.m., RVC	29 ■ Henry Shaw Cactus and Succulent Society Show and Sale, noon to 5 p.m., RVC ■ Kakao Chocolate tasting, RVC ■ Desert Show, *through August 4*

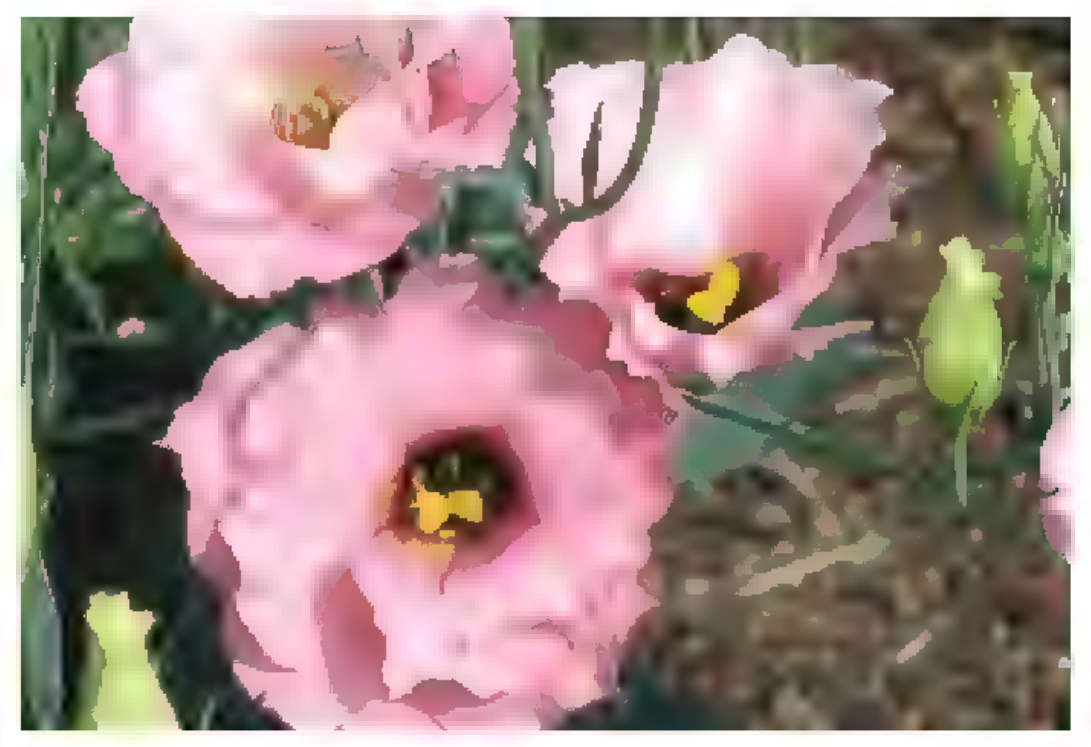
photos by Lisa Francis and Sonia Lalla

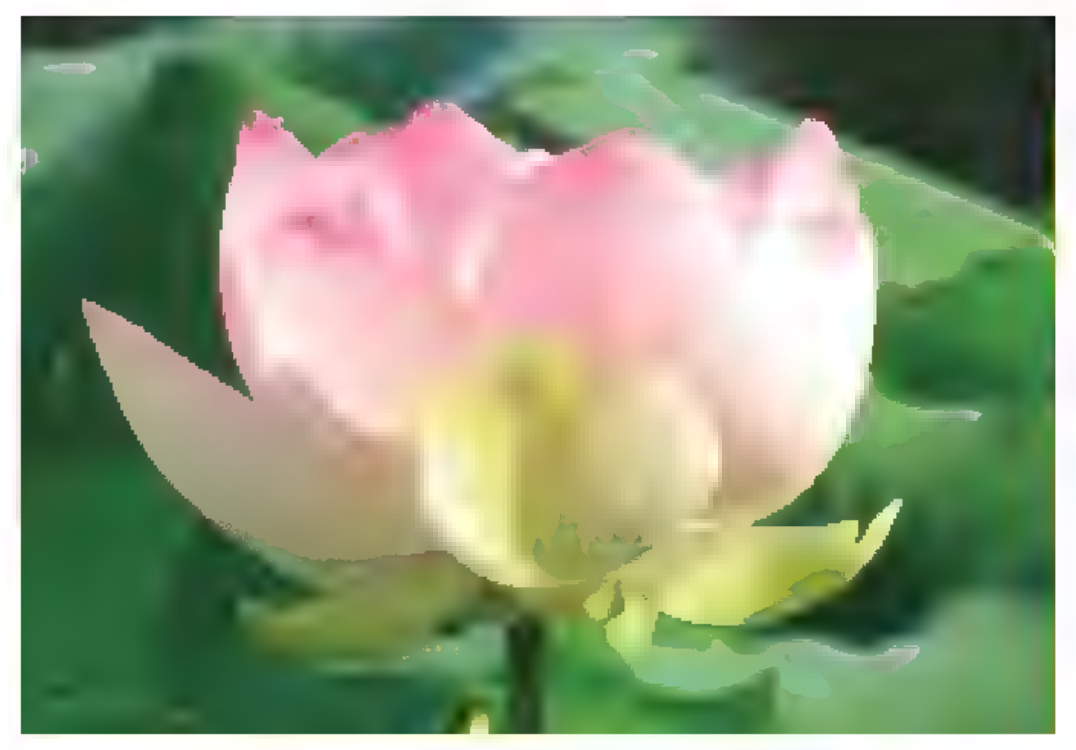
July 2013

average temperature: low 71°, high 89°
average precipitation: 4.2 in.

What's in bloom?

Globe thistle


Lisianthus


Sacred lotus

Black-eyed Susan

Hoya

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
CAFÉ FLORA Brunch at Spink Pavilion Sundays through September 29	1	2 ✿ Members-only Evening Strolling Hours, 5 to 8 p.m.	3 Beth Bombara 7:30 p.m. CA	4 **INDEPENDENCE DAY**	5	6 ■ Chocolate Chocolate Chocolate tasting, RVC
7	8	9 **RAMADAN** ✿ Members-only Evening Strolling Hours, 5 to 8 p.m.	10 Victor & Penny 7:30 p.m. CA	11 ■ Foodology Film Series: *Grow,* 7 to 9 p.m.	12 ■ Family Night Hike Adventure, 6:30 to 9 p.m, $ ☎ SNR	13 ■ Billy Goat Chips tasting, RVC
14 ■ Pollinator Picnics, 11 a.m. to 3 p.m. $ ☎ BH	15	16 ✿ Members' Day: Herbarium & Library Tour, 10 a.m. ☎ MC ✿ Members-only Evening Strolling Hours, 5 to 8 p.m. ■ Corporate Partners Day, 5 to 8 p.m.	17 Montez Coleman/ Willie Akins Project 7:30 p.m. CA	18 ✿ Members' Day: Family Picnic, 5:30 p.m. ☎	19 ■ Around the World Wine Dinner, 6:30 p.m. $ ☎ ■ Bissinger's tasting, RVC	20 ■ Bug Hunt, 11 to 11:45 a.m. and 1 to 1:45 p.m. BH ■ Great Green Adventures: Discover Missouri Natives, 10:30 a.m. and 1:30 p.m., $ CHD ■ Kakao Chocolate tasting, RVC
21 ■ Bug Hunt, 11 to 11:45 a.m. and 1 to 1:45 p.m. BH	22	23 ✿ Members-only Evening Strolling Hours, 5 to 8 p.m.	24 Henry Shaw's Birthday Sarah Jane and the Blue Notes 7:30 p.m. CA	25	26	27 ■ Chocolate Chocolate Chocolate tasting, RVC
28	29	30 ✿ Members-only Evening Strolling Hours, 5 to 8 p.m.	31 Big George Brock 7:30 p.m. CA	www.plasticpot recycling.org Through October		

photos by Lisa Francis and Kat Douglas

August 2013

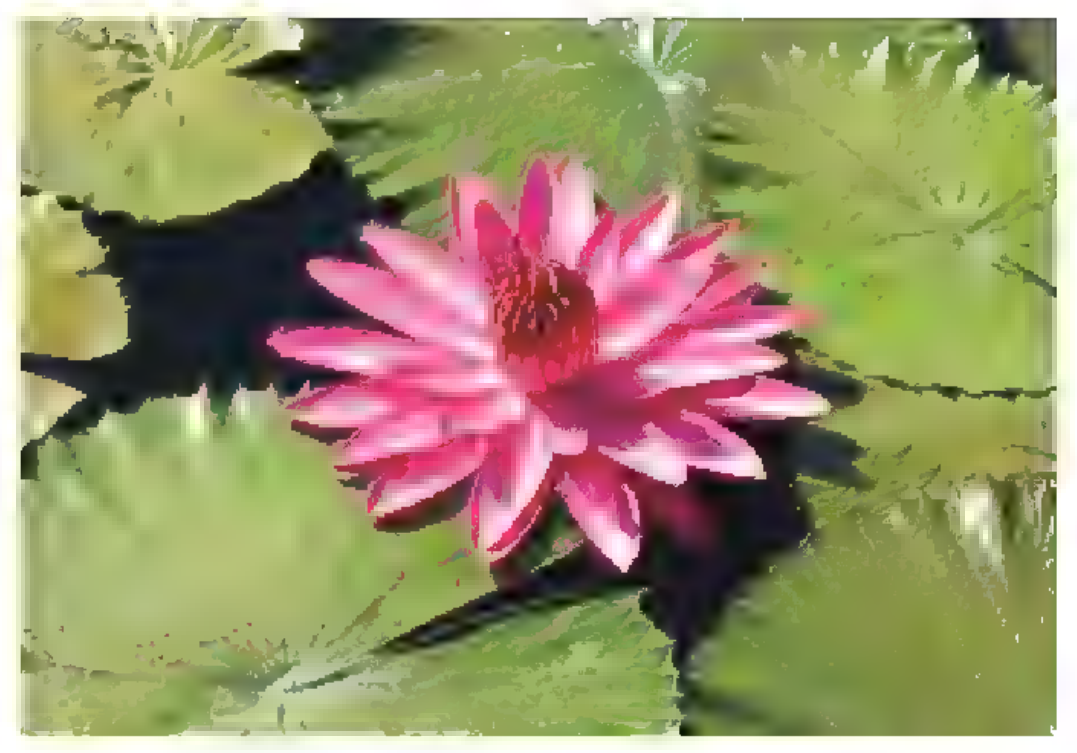
average temperature: low 70°, high 88°
average precipitation: 3.4 in.

What's in bloom?

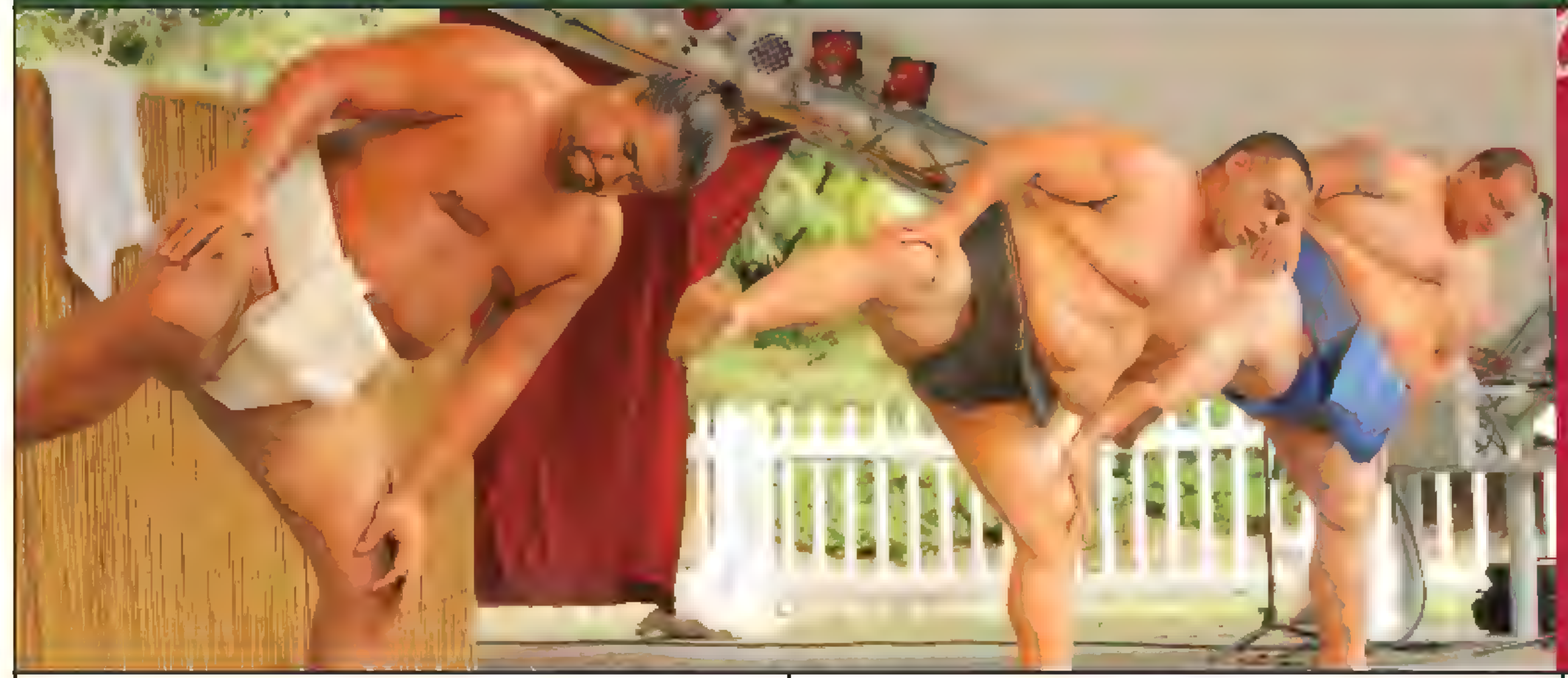
Lily turf

Panicle hydrangea

Brazilian plume


Tropical water lily

Zinnia

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		**Japanese Festival** Labor Day Weekend (Aug. 31–Sept. 2) *Presented by Wells Fargo Advisors.*		1	2	3 ■ Healthy Harvest/Olea Estates tasting, RVC
4	5	6 Members-only Evening Strolling Hours, 5 to 8 p.m.	7 Whitaker Music Festival The Scandaleros 7:30 p.m. CA	8 **EID-AL-FITR** ■ Foodology Film Series: *Cafeteria Man,* 7 to 9 p.m.	9	0 ■ The Caramel House / Kuva Coffee tasting, RVC
1	12	13 Members-only Evening Strolling Hours, 5 to 8 p.m.	14	15	16 ■ Around the World Wine Dinner, 6:30 p.m. $ ☎ ■ Greater St. Louis Iris Society Sale, 9 a.m. to 5 p.m., RVC ■ Bissinger's tasting, RVC	17 ■ Great Green Adventures: How Does Your Garden Grow?, 10:30 a.m. and 1:30 p.m., $ CHD ■ Greater St. Louis Iris Society Sale, 9 a.m. to 5 p.m. RVC ■ Billy Goat Chips tasting, RVC
18 ■ Pollinator Picnics, 11 a.m. to 3 p.m. $ ☎ BH	19	20 Members-only Evening Strolling Hours, 5 to 8 p.m.	21	22	23 **Summer Iris Sale through August 26, Garden Gate Shop**	24 ■ Missouri Botanical Garden Daylily Association Sale, 9 a.m. to 5 p.m. RVC
25 **Summer Iris Sale through August 26, Garden Gate Shop**	26	27 Members-only Evening Strolling Hours, 5 to 8 p.m.	28	29	30	31 ■ Japanese Festival, *through September 2* (no morning walking hours)

photos by Lisa Francis and Christopher Gibbons

IT'S TIME TO GET YOUR
HANDS IN THE DIRT

You've planted your seeds, you've cared for your plants—now it's time to harvest the fruits (or vegetables) of your labor! Pick up all the essentials and learn about new and easy ways to introduce some edible plants into your life. Celebrate Foodology with us!

GARDEN
GATE SHOP.ORG

All proceeds benefit the Missouri Botanical Garden

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photo by Andrew Dolinky

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photo by Josh Morken

Japanese Festival

Labor Day Weekend | Aug. 31–Sept. 2

Celebrate the history, culture, and people of Japan in one of the largest and oldest festivals of its kind in the U.S. Admission; $15 (ages 13 and up); $5 Children (ages 3–12); $5 Garden members (free for members' children 3–12). For tickets, visit **www.mobot.org**.

Presented by Wells Fargo Advisors.
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Missouri
Botanical
Garden

bulletin

Fall 2013 Vol. 101 No. 4

www.mobot.org

photo by Koraley Northen

President's Comment

Beyond the significance of biodiversity conservation on a global scale, it's important to remember that many threatened plants are vital to people's everyday lives—whether for nutritional, medicinal, or spiritual purposes. The Garden's research and education work contributes to the discovery and preservation of plants and, in many cases, the traditional knowledge associated with them. We're proud that our ethnobotanists are leaders in studying and preserving this important balance between plants and people (see page 5). That is why it was fitting that the Garden hosted ethnobotany experts from around the world to develop a program to preserve useful plants and their communities' traditional knowledge (see page 4).

Preserving biodiversity, however, should not be limited to scientists in botanical gardens and research institutions. The choices we make every day can have an impact on conserving plant diversity and the environment—particularly the food we eat. Growing heirloom fruits and vegetables (see page 8) and incorporating wild natives in our landscapes (see page 12) are just a few ways both farmers and home gardeners can help prevent biodiversity loss. As we wrap up our Year of Food celebration, I encourage you to continue learning about the plants that feed us and the role they play in our lives.

It is because of the incomparable support that you, our volunteers (see page 6), and outstanding individuals (see page 4) give every day that the Missouri Botanical Garden continues to be a leader in plant research, education, and conservation. On behalf of everyone at the Garden, the Butterfly House, and Shaw Nature Reserve, *thank you!*

Peter Wyse Jackson

Dr. Peter Wyse Jackson,
President

As a Garden member, did you know:

- You receive reduced pricing to special events?
- You can enjoy evening walking hours on Tuesdays in the summer?
- You receive free admission for two adults and all children ages 12 and under to the Shaw Nature Reserve and Sophia M. Sachs Butterfly House?
- You receive free admission to the Children's Garden all day Tuesdays? (Open April–October)
- Special Members' Days entitle you to exclusive events and activities, as well as free tram rides and discounts in the gift shop and café?
- You get free or reduced-price admission to nearly 270 botanical gardens and arboreta in the U.S. and Canada?

These are only a few of the benefits. Visit **www.mobot.org/membership**, email **membership@mobot.org**, or call (314) 577-5118 to learn more.

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Garden Hours

The Garden is open 9 a.m. to 5 p.m. every day except during holiday hours (November 23 through January 5) when it closes early at 4 p.m. Closed on Christmas Day.

General public outdoor walking hours begin at 7 a.m. Wednesdays and Saturdays.

General Admission

$8 ($4 for residents of St. Louis City and County); children 12 and under are free. Garden members receive free admission (based on level).

Children's Garden: $5 for children; adults admitted free. ($3 for Garden member children.) Member children admitted free on Tuesdays. Open April through October.

Contact

Missouri Botanical Garden
4344 Shaw Blvd., St. Louis, MO 63110
(314) 577-5100 • www.mobot.org

On the Cover:

Fall display including: (from bottom to top) *Cucurbita maxima* 'Jaune Gros de Paris,' *Maclura pomifera*, *Physalis alkekengi*, *Cucurbita maxima* 'Rouge Vif d'Etampes,' *Rosa canina*, *Cucurbita maxima* 'Polar Bear,' *Cucurbita maxima* 'Jarrahdale', *Nelumbo nucifera*, *Cucurbita pepo* 'Kakai Hulless', *Cucurbita pepo* 'Rascal,' *Cornus sericea* Photo by Christopher Gibbons.

Credits

Editor/Designer: Andrea Molina

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photo by Tom Incrocci

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Why Heirlooms?

Home gardeners can help with the diversification of crops in and outside the kitchen.

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Explore the many ways to preserve your summer bounty.

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To discover and share knowledge about plants and their environment in order to preserve and enrich life.

– *mission of the Missouri Botanical Garden*

News

Leaders Gather at Ethnobotany Workshop

Representatives from around the world gathered at the Missouri Botanical Garden in May to address Targets 9, 11, 12, and 13 of the United Nations' Global Strategy for Plant Conservation (GSPC), which relate to ethnobotany and economic botany.

The workshop offered leaders in these fields a chance to discuss and share ideas about their work. It was also an opportunity to draft a document appealing to the international community to work to preserve plants that are useful to humans and promote traditional knowledge. "We recognize that the [GSPC] is very important," says Edelmira Linares of the National Autonomous University of Mexico Botanic Garden (JBUNAM in Spanish), "but there are still holes that need to be addressed and that we can contribute to so true conservation can be achieved."

As one of the top botanical institutions in the world, the Garden combines its leadership in implementing the GSPC with the expertise of its William L. Brown Center in the study of useful plants, their relationship to humans, and their conservation. "It's really important to come together and share our experiences, identify gaps and needs, and see how we can move forward," says Ina Vandebroek of The New York Botanical Garden. "The Missouri Botanical Garden is taking a cutting-edge role by being at the forefront of this initiative."

Vijay Barve (left), of the Foundation for Revitalisation of Local Health Traditions in India, and Dr. Ehsan Dulloo (right), of Bioversity International in Italy, at the ethnobotany workshop discussing the United Nation's Global Strategy for Plant Conservation.

Leaving a Legacy

Three longtime friends of the Garden recently passed away: Sonya "Sunny" W. Glassburg (1918–2013), Lucy L. Lopata (1914–2013), and Doris I. Schnuck (1925–2013). Each was a generous supporter of the Garden with unique legacies across our family of attractions that will benefit visitors for years to come.

Sunny was a supporter of the Garden for over 30 years. She wanted to share the expansive natural beauty and conservation work of Shaw Nature Reserve with a broad array of visitors—especially children. Sunny's gifts to the Reserve expanded education programming and provided school transportation funds, ensuring all children could enjoy the Reserve regardless of income status. The Glassberg Family Pavilions and restrooms will continue to shelter schoolchildren and families at the Reserve for many years.

Lucy was a supporter of the Garden for over 50 years and was also actively involved in the establishment of the Sophia M. Sachs Butterfly House. She wanted to engage children with the joy of nature and foster their natural sense of wonder. Whether they are investigating the *Lopatapillar* sculpture and searching for insects in the Native Garden or creating projects and memories in the Lopata Learning Lab, visitors to the Butterfly House will continue to connect to nature in a playful, magical environment thanks to Lucy's gifts.

Doris was a supporter of the Garden for over 40 years. Her biggest joys in life came from sharing the achievements and experiences of her children and grandchildren. To honor this generous spirit, her six children supported the development of the Doris I. Schnuck Children's Garden: A Missouri Adventure in 2006. This two-acre adventure garden introduces children to the significance of nature, botany, and Missouri history in fun and innovative ways. Education, play, and exploration occur across this garden space.

Each of these exemplary individuals created a wonderful legacy for visitors across the Garden's family of attractions. Their collective impact is even greater, and generations of children will be enriched because of their vision and generosity.

Garden Curator Elected Distinguished Economic Botanist 2014

Dr. Jan Salick, Senior Curator at the Garden's William L. Brown Center, was recently elected Distinguished Economic Botanist 2014 by the Society for Economic Botany (SEB). The award is considered the highest honor given to ethnobotanists. "It's especially nice for me because this was my 30th anniversary of starting out in ethnobotany," she says. "The paradigms have changed in these past 30 years, and it's been fun to be a part of that." Dr. Salick has been a part of SEB for many years, including Council Member and President.

Library Awarded Grant for Engelmann's Letters

The Garden's Peter H. Raven Library received a one-year grant to digitize Dr. George Engelmann's correspondence. This project is supported by the Institute of Museum and Library Services under the provisions of the Library Services and Technology Act as administered by the Missouri State Library, a division of the Office of the Secretary of State.

Engelmann was a world-renowned botanist and Henry Shaw's scientific advisor and close friend. The library will scan over 5,000 letters written to Engelmann by some of the most notable scientists and explorers of the 19th century. "It's exciting! We've wanted to do this for a long time," says Library Director Doug Holland. "Digitizing this collection will provide free and easy access to original correspondence documenting the development of botany and natural history in the United States during the tumultuous age of western exploration in the mid-19th century." The records and images will be added to the library's online catalog Botanicus, the Missouri Digital Heritage website, and the Biodiversity Heritage Library, **www.biodiversitylibrary.org.**

GARDEN GLOW
November 23–January 4

photo by Mary Lou Olson

The Missouri Botanical Garden is excited to announce its plans for Garden Glow 2013, the Garden's first ever light exhibit that will open this winter. "Our members, visitors, and staff have asked about the possibility of winter lights for years. This is the year," says Garden President Dr. Peter Wyse Jackson. Visitors will have the opportunity to stroll through the Garden at night as they are surrounded by unique lighting installations throughout the grounds, with hundreds of thousands of lights adorning some of the Garden's most iconic locations, including the Climatron®, Kaeser Memorial Maze, and Tower Grove House. Garden Glow will also feature music, seasonal food and drinks, s'more-making at fire pits, and interactive displays. For more information, hours, and tickets, visit **www.mobot.org/glow.**

Volunteers will be important to the success of Garden Glow. If you'd like to participate, please visit **www.mobot.org/volunteer.**

Save the Date: Nov. 22

Members will get a special preview of Garden Glow before it opens to the general public. Reservations required. For more information or to purchase tickets, visit **www.mobot.org/glow.** Now is a great time to renew your membership!

Japanese Garden Improvements

The renovation of several features in the Japanese Garden will begin in October shortly after the Best of Missouri Market® (see back cover). Construction work—repair or replacement of the bridges, waterfalls, and pumping systems—is expected to be completed by the spring of 2014. Parts of this 14-acre garden will be closed to the public while construction is underway.

News cont.

Garden Team Behind One of Top 10 New Species

On May 23, the International Institute for Species Exploration announced its sixth annual Top 10 New Species list, which includes the endangered forest shrub *Eugenia petrikensis*. This Eugenia was found in the littoral forests of Petriky in southern Madagascar in 1989. The team that collected it included Garden Curator Dr. Gordon McPherson and David Rabehevitra, a former student and botanist with the Garden's Madagascar Program. Dr. Neil Snow, a former graduate student at the Garden, described the new species.

The team made the discovery while doing an extensive botanical inventory on the island's littoral forests in the late 1980s and early 1990s. Their project led not only to the discovery of many new species but also to the establishment of the Garden's first conservation project in Madagascar, Mahabo, which was one of the threatened sites the team visited while doing research.

A new protected area was recently established to conserve the most intact and species-rich part of Petriky, which includes a population of *Eugenia petrikensis*.

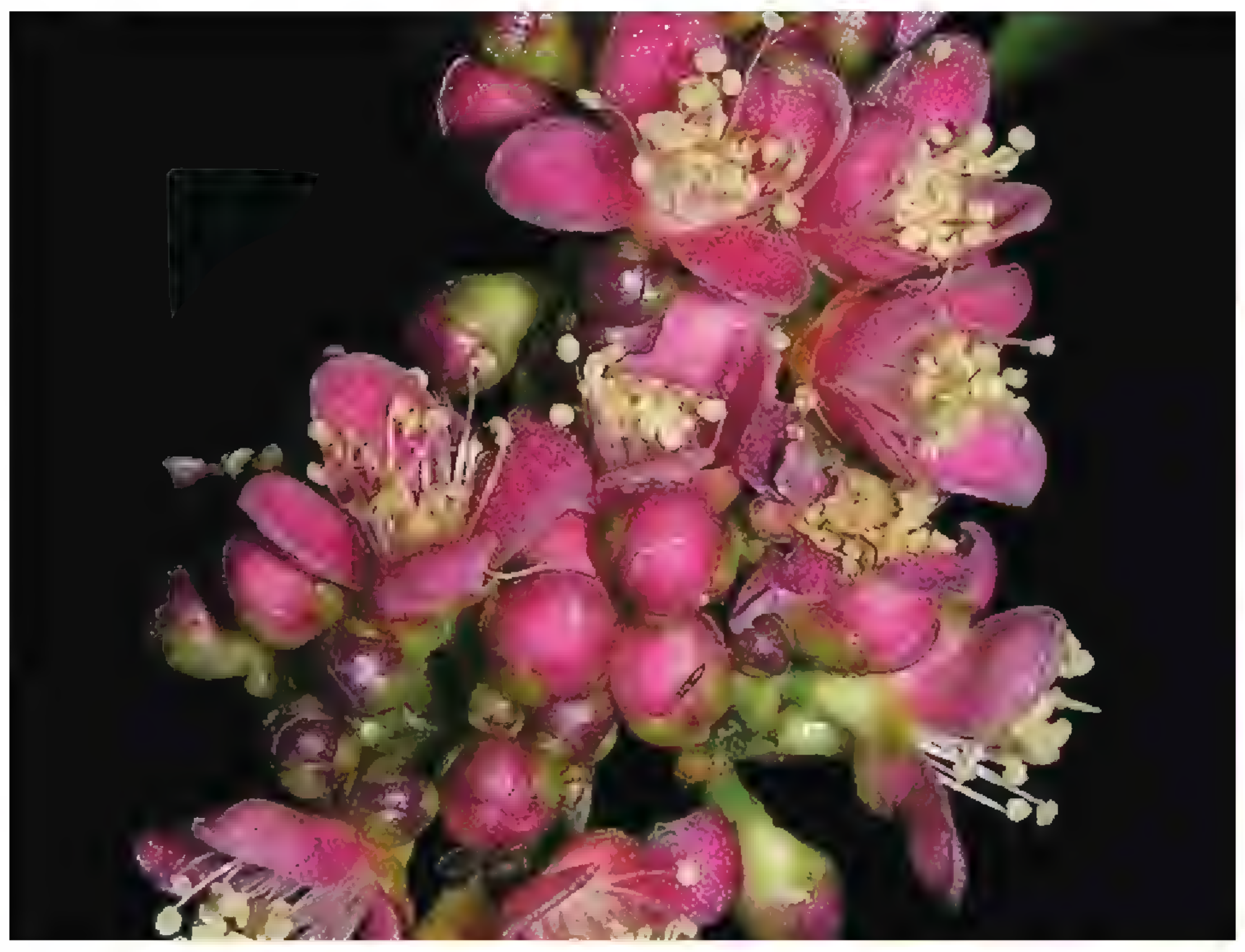


photo by David Rabehevitra

40 years
30 years
20 years
10 years

40 years— Mary Jane Kirtz, Dr. Peter Wyse Jackson. 30 years—Jim Jackson, Anne Buhr, Dr. Wyse Jackson, Bev Schmitt, Jean Leonhardt, Eileen Hahn. Not pictured: Eleanora Markus. 20 years—Dr. Wyse Jackson, Joyce Landauer, Jane Bosché, Jim Teng. Not pictured: Anne Cori, Martha Gersten, Diane Kohl, Liz Teasdale. 10 years—front row, from left: Ken Olsen, Sandy Olsen, Jackie Bainter, Marianne Vahlkamp, Ann Larson, Ginny McCook, Marge Dougherty, Doris Kroupa, Janis Henricks, Nancy Clark, Judy Goedeker, Jack Karty; second row, from left: Fredric Rissover, Bill Schwab, Betty Meyer, Linda Bolhofner, Dr. Wyse Jackson, Don Ryan, Barb Hilton, Jennifer Schamber, Elaine Baden; back row, from left: Ruth King, Deanna Nash, Thom Downey, Wally Cammarata, Charlie Schmidt, Jan Gowen, Madelynn Kester. Not pictured: Lori Calcaterra, Andrea Casamento, Alberta Chulick, Lil Collins, Robin DeTurk, Betsy Gee, Judy Harmon, Maggie Jackson, Rick Johnston, Peggy Kachulis, Karen Koehneman, Janet Lange, Connie Lippert, Holly Parks, Dave Reindl, Bill Sedlock, Paul Travers, Margaret Winter. (photos by Molly Krohe)

Volunteer Service Recognition

The Missouri Botanical Garden would not be the world-renowned institution it is today without its volunteers. In 2012, more than 1,800 people volunteered more than 140,000 hours of service at the Garden, or the equivalent of 73 full-time staff. The Garden celebrated this remarkable service during the Volunteer Appreciation Evening on May 16 and the Volunteer Service Recognition luncheon on June 13.

40 years of service: Among those honored that day was Mary Jane Kirtz, who celebrated 40 years of service as a Garden volunteer. She began volunteering in 1973, and over the decades she has served on the Members' Board, the Garden Docent program, and the Tower Grove House Historical Committee. Her extensive knowledge on the Garden's sculptures was key for the book *Sculpture at the Missouri Botanical Garden*, which was published in 1988.

FOODOLOGY dig in!

What's on the menu? Celebrate the Year of Food in 2013! Join the Garden and its family of attractions for more activities, classes, and events celebrating the wonderful world of food.

Edible Plant Life List

By Andrew Townesmith, WLBC Research Specialist

Wild persimmons in Missouri are produced by the American persimmon (*Diospyros virginiana*). The Asian persimmon (*Diospyros kaki*) is the persimmon found in supermarkets. I find the American persimmon to have a more complex and interesting flavor than the Asian persimmon.

By mid-September, persimmons are ripe in much of Missouri. As they ripen, they become very soft. Fruits continue to ripen for up to a month, and may be present on the trees after the leaves have fallen.

Last year while camping in the late fall, I found several persimmon trees bearing fruit and decided to make persimmon pancakes. Check out **www.mobot.org/foodology** to read my blog and get the full recipe.

Learn more! Go to page 12 to read more about persimmon and other wild edible Missouri natives.

Working for More Energy-Efficient Homes

The Garden's EarthWays Center has teamed up with Ameren Missouri for its residential energy efficiency programs. Ameren Missouri dual residential electric and natural gas customers are eligible for a PerformanceSavers energy audit for only $25, plus installation of energy saving improvements and qualification for rebates. As a leading expert in residential energy efficiency, the EarthWays Center has been contracted to perform the audits. Visit **www.actonenergy.com** to learn more about these programs, including Ameren Missouri's CoolSavers program to get cash-back rebates when you upgrade your home's cooling equipment.

Tree Climbing Competition Returns to the Garden

The International Society of Arboriculture–Midwest Chapter returned to the Garden for first time in 16 years on June 8 to hold its Tree Climbing Championship.

The competition hosted 32 participants from across the region, including Garden horticulturist—and the only female competitor—Teresa Pafford. "It's intense, kind of like a roller coaster," she says of her first time competing. "It was a very good experience, and I definitely hope to do it again." After five preliminary rounds, she and three others advanced to the Master's Challenge. Champion Brandon Toppins of Springfield, Missouri, moved on to the International Tree Climbing Championship in Toronto, Canada this past August.

After recovering the 150-lb dummy in the aerial rescue round, Teresa Pafford was one of the finalists at the Tree Climbing Championship. (photo by Andrew Wyatt)

Grow Your Own EDIBLE GARDEN

by Elizabeth Spiegel
Missouri Botanical Garden's edible garden expert

photo by Christopher Gibbons

General Tips

- Row covers can add a few degrees of frost protection as temperatures dip below freezing.
- Tilling in the fall, especially right before freezing temperatures, can expose pests in the soil to the cold temperatures, thus reducing numbers in the coming year.

Plants

- Winter cover crops should be sown in October.
- Many vegetables—Brussels sprouts, kale, leeks, parsnips, celeriac, and carrots—produce more sugars or convert starches to sugars after a frost, making them even tastier when harvested.
- Beets, radishes, carrots, Jerusalem artichokes, and turnips can be covered with 1 to 2 feet of straw or leaves in late fall and harvested all winter long.

Maintenance

- Watch out for cabbage loopers on your broccoli, cauliflower, kale, Brussels sprouts, and cabbage. Pick them off as soon as you spot them or protect your crops with row covers.
- Pull mulch away from the base of fruit trees to deter hungry rodents from gnawing at the bark.
- As fall crops are harvested, make sure to remove all plant material from the bed to prevent diseases.

Don't forget to check out the "Your Garden" section at **www.mobot.org**.

Why heirlooms?
Why not?

Heirloom potato onions (*Allium cepa aggregatum*) in a wide variety of sizes not only provide crop diversification but also are great for cooking.

By Liz Fathman,
Sr. Publications Manager and author of *Missouri Harvest: A Guide to Growers and Producers in the Show-Me State*

Photos by Chiot's Run (www.chiotsrun.com)

Resources:

Missouri Harvest: A Guide to Growers and Producers in the Show-Me State, by Maddie Earnest and Liz Fathman

Seed Savers Exchange
www.seedsavers.org

Baker Creek
www.rareseeds.com

Local Harvest Seed Library
www.thelocalharvestdish.wordpress.com/2013/06/07/the-local-harvest-community-seed-library

Slow Food St. Louis:
www.slowfoodstl.org

In this Year of Food at the Missouri Botanical Garden, we have focused on all manner of plant-based food. Everybody eats, and many people cook, so these activities have been central to our celebration. But we are also a garden, so we celebrate the growing of edible plants. Our vegetable and fruit gardens are where most of that growing happens every year, but this year many of our display gardens have incorporated edible ornamentals (or ornamental edibles, as it were!).

Growing food for consumption is a hobby to many, but to an increasing number of people in Missouri, it is an occupation. In fact, Missouri ranks #2 in the nation in the number of small farms, defined by the U.S. Department of Agriculture (USDA) as an agricultural operation from which at least $1,000 worth of product is (or would be expected to be) harvested in a year.

In writing about the local food movement in Missouri, my co-author and I talked with over 200 small-scale farmers across the entire state. Interestingly, many of the farmers we interviewed have a lot in common with home gardeners, except their produce is for sale!

The majority of farmers profiled in our book adhere to a general set of sustainable farming principles outlined by the USDA that include:

- Soil management to enhance and protect soil quality.
- Selection of varieties that are well suited to the site and to conditions on the farm.
- Diversification of crops and other practices to enhance the biological and economic stability of the farm.

On the last point, one way smaller farms are able to diversify is by growing more heirloom varieties. In the U.S. it is estimated that 90 percent of our historic fruit and vegetable varieties have vanished (Charles Seibert, "Food Ark," *National Geographic*, July 2011). As we reported in an article last spring about bananas and biodiversity, reliance on fewer crop varieties leaves the food supply weaker and more susceptible to pests and disease. Botanical gardens like ours have played a significant role in cultivating biologically

(Left) *Solanum tuberosum* 'Carola', 'All Red', 'All Blue', and 'Purple Viking' heirloom potatoes from Seed Savers Exchange. (Right) *Zea mays* 'Strawberry' and its signature ruby red kernels.

diverse plants, including food plants. But the gardens here are for display and research, not consumption. So what is a farmer or home gardener with an interest in heirloom varieties to do?

Seed Savers Exchange is a national nonprofit organization that sells seeds of heirloom edibles (and flowers) and also hosts a members' exchange whereby members can buy and sell their own seeds with each other. Here in Missouri, Baker Creek is one of a handful of commercial heirloom seed sellers. Closer to home in St. Louis, Local Harvest Grocery has instituted a community seed library. Acting like a local seed bank, the library collects and saves seeds from local growers, then "lends" them to other growers with the promise that some of the produce be left to collect the seeds and return them to the library for future "borrowers." The library allows home gardeners and others to try new varieties while preserving or even restoring crop diversity to the area.

Home gardeners who borrow these seeds invest the time and effort needed to raise them, but the only real risk is that the end result is disappointing for one reason or another. Farmers face a bigger risk in raising diverse crops: finding a market for the produce and being able to cover the cost of producing it. For farmers who want to grow heirloom crops (or raise heritage livestock), Slow Food St. Louis offers micro-grants to facilitate the purchase of seeds or animals, as long as they fit the definition of an heirloom or heritage variety. A successful crop or herd can bring valuable business to a small farmer, especially in the race by local restaurateurs and chefs to be the first to offer the latest and rarest food on the menu.

Whether you are a home gardener, a farmer, or a supporter of local food, taking a chance on heirlooms has many benefits. Heirloom varieties typically taste better and offer a wider variety from which to choose. But for those of us at the Garden, their contribution to preserving biodiversity may be the most important reason to grow, eat, and enjoy them. So the next time you put a slice of heirloom tomato on your sandwich or make tomato sauce (sidebar), congratulate yourself for helping the planet.

Heirloom Tomato Sauce

Courtesy Justin Leszcz | YellowTree Farm
Yield: 3 to 4 quarts of tomato sauce

1 handful* of fresh:

- sage
- oregano
- thyme
- rosemary
- basil
- tarragon
- marjoram

3 whole cloves garlic

4 cups olive oil

7 to 10 pounds heirloom tomatoes

2 tablespoons table salt

2 tablespoons minced fresh garlic

Ground white pepper

**1 handful=about 1 cup. Herbs shouldn't be chopped up, so using a measuring cup is difficult.*

1. In a saucepan, combine herbs, whole garlic cloves, and olive oil. Place over low heat for at least 1 hour (longer for more intense infusion). Stir occasionally. Be sure oil doesn't boil.
2. Remove from heat and pour through a strainer. Discard solids.
3. Wash and core tomatoes. (Chef's hint: Core tomatoes with a pastry bag's metal decorating tip.)
4. Cut tomatoes in half, place in a large pot, and add salt, minced garlic, and white pepper to taste.
5. Bring to a simmer over medium heat. Cook about 30 minutes; stir frequently until tomatoes disintegrate.
6. Pour 2 cups of the tomato mixture into a blender and blend on high until smooth. Reduce speed to low and slowly add a drizzle of the herb-infused olive oil. Stop when the mixture reaches near the top of the blender. Repeat with remaining simmered tomatoes and olive oil.

photo by Rebecca Hensiek

Preserving the Bounty

Adapted from *Missouri Harvest: A Guide to Growers and Producers in the Show-Me State*

Summer brings an abundance of fresh produce, and when you're in the middle of it, it seems like there will be no end to the quantity and variety of fruits and vegetables. But those summer months turn to fall and winter, and with them comes the absence of fresh local produce. That doesn't mean you can't eat summer vegetables and fruits anytime as long as you have preserved some in advance. Simple methods to preserve foods include freezing, drying, canning, and pickling.

To freeze vegetables like green beans, corn, tomatoes, and okra, blanch them first by washing and (optionally) cutting them up into the desired size, then boiling them for a few minutes until the color intensifies. Then immediately drain the vegetables and plunge them in ice water to stop the cooking process. Drain them when they are cooled, place them in freezer bags, and store them in the freezer.

Fruits can be sprinkled with a bit of ascorbic acid dissolved in water (available where you buy canning supplies), spread on a baking sheet or other large tray, and placed in the freezer. When the fruit is frozen, transfer to airtight containers or freezer bags and label them with the date and contents.

You can dry fruits and vegetables in a food dehydrator or in the oven on low heat. Blanch first, then heat the oven to 140°F or 150°F. Place cut or sliced vegetables or fruits on baking sheets in the oven, making sure there is enough space between the oven racks for air to circulate. Keep the oven door open slightly to allow moist air to escape. Check every 30 minutes, stirring the vegetables or fruits and moving the baking sheets to ensure even exposure to the heat and to avoid cooking them (you're just trying to remove the water from them).

Fruits and certain vegetables can also be made into butters, jams, or preserves; sorbet, granita, or ice cream; juices; or infusions.

Pickling and canning vegetables like green tomatoes, beets, cucumbers, beans, carrots, peppers, and garlic takes a little more effort and equipment than freezing or drying, but not that much. Once you have the proper equipment, you may never buy store pickles again.

Quick pickles are the easiest to make, and there are many good recipes out there. You can use different types of vinegar (white, cider, rice), but make sure whatever you use has 5 percent acidity. Some people like to cut the tartness with a little sugar or agave, which is fine. Rather than making individual jars of pickles, you may choose to combine them into a giardiniera, which is essentially mixed marinated vegetables.

Of course, another great way to preserve summer's bounty to enjoy later is to make sauces. Tomato sauce is probably the most common (see page 9), but also consider red pepper sauce for a bit of a kick.

Family Food Challenge

Challenge #8: One Food, Multiple Ways

FAMILY FOOD CHALLENGE
FOOD OLOGY
MISSOURI BOTANICAL GARDEN

Explore your food stories–from the ways they are grown to the ways they are prepared–with the **Family Food Challenge** booklet.

Pick up a copy at the Brookings Interpretative Center or download it at **www.mobot.org/foodology.**

Since 1998, visitors of all ages have enjoyed the unique experience of being surrounded by butterflies in a tropical conservatory. (photo by Christopher Gibbons)

Celebrating 15 Years of Wonder

Anniversary Celebration

Wednesday, September 18, 9 a.m. to 4 p.m., Butterfly House

Join us for cake as we celebrate our 15th birthday. All guests will enjoy $1.50 admission all day.

Wing Ding 2013

Saturday, September 28, 6:30 to 10:30 p.m., Butterfly House

Your support benefits exhibits, educational programs, and conservation initiatives at the Butterfly House. Enjoy food and cocktails, live entertainment, a silent auction, and more! Call (314) 577-9500 or visit **www.butterflyhouse.org/wingding** for information.

It started in 1993 with a spark in Evelyn E. Newman's heart after seeing the butterflies in Chiang Mai, Thailand. When it opened its doors at Faust Park in Chesterfield, Missouri, the Sophia M. Sachs Butterfly House introduced visitors of all ages to the beauty and ecological importance of butterflies. It was named in honor of the wife of Sam Sachs—who was influential in the development of Chesterfield—and her generous spirit.

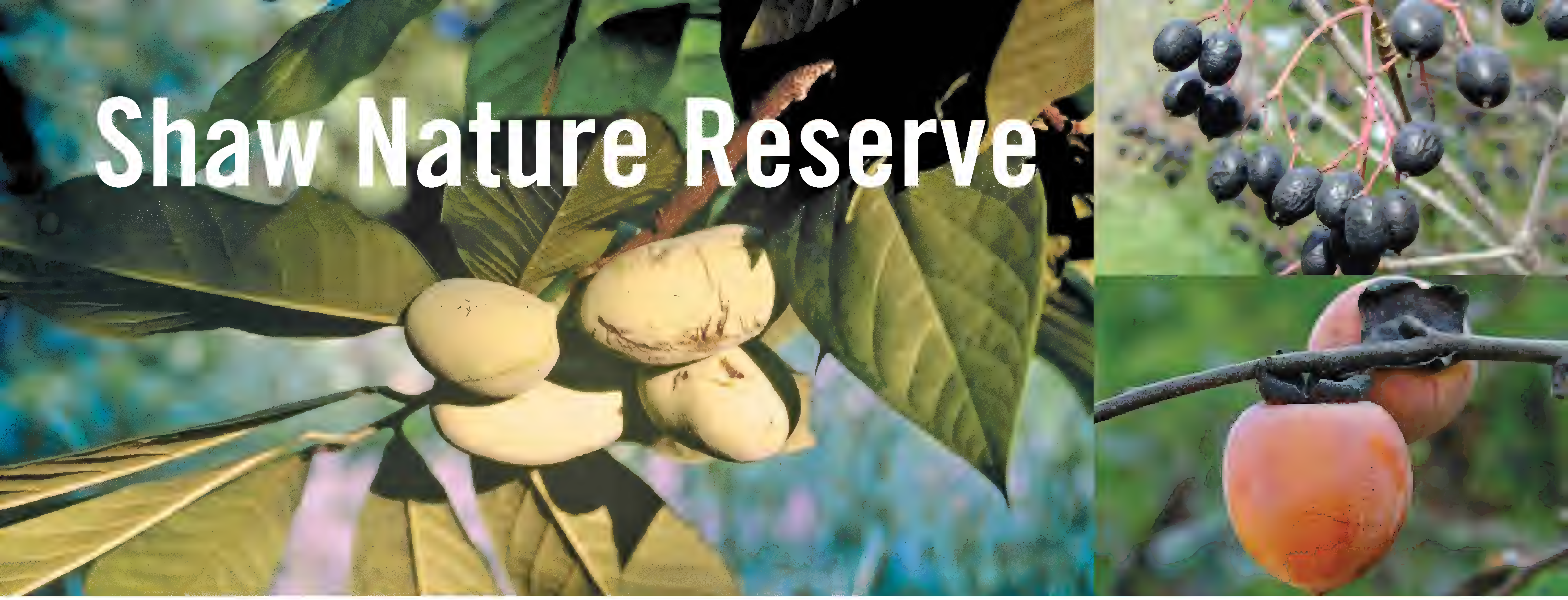
Shortly after opening to the public in 1998, the Butterfly House became one of St. Louis's top attractions and premiere butterfly houses in the nation. In 2001, it became a division of the Missouri Botanical Garden. "This inspiring display of butterflies and their role in preserving Earth's environmental balance is a superb complement to the Garden's programs in botanical research and science education," said then-Garden President Dr. Peter H. Raven of the addition.

Over the years, the Butterfly House has expanded its educational programs, special events, and animal exhibits to include other insects and arthropods. Every year, more than 140,000 people get a closer look at these magnificent creatures in a setting like no other. "It's such a unique, unbelievable experience to have butterflies flying around you," says Laura Chisolm, Living Collections Manager. After 13 years working at the Butterfly House, she has seen it grow—from the Emerson Lakeside Terrace to the Lopata Learning Lab—and give visitors an unforgettable way to learn more about these animals and their role in our lives.

Today, the Butterfly House continues to be the only dedicated insect facility in the country accredited by the Association of Zoos and Aquariums as well as a leader in butterfly conservation. Its primary supplier, El Bosque Nuevo in Costa Rica, is a butterfly conservation organization that uses sustainable methods in its operations. The Butterfly House will continue to establish, expand, and promote local community projects, including butterfly counts and the establishment and conservation of riparian parks.

Come celebrate with the Butterfly House! Continue exploring these amazing creatures and create unforgettable memories for generations to come.

Shaw Nature Reserve


Missouri natives can add an edible touch to your landscape. (Left) Pawpaw (Top) Blackhaw viburnum, and (Bottom) Persimmon. (photos by Scott Woodbury and Dan Tenaglia)

Wild About Native Edibles

By Scott Woodbury, Curator, Whitmire Wildflower Garden, and Cindy Gilberg, Native Landscaping Horticulturist

Long before grocery stores and restaurants, indigenous people of the Midwest looked outside for all that they needed—food, shelter, clothing, and medicine. Though many feel that foraging for food is a thing of the past, it actually puts us back in touch with the bounty of nature and the rhythm of the seasons. Many native food crops make great choices for creating an edible home landscape.

This is a small sampling of native edible plants you can find in the wild or grow in your garden. Several native trees and shrubs bear delicious fruit, and some have attractive flowers that add beauty in different seasons. To find others, pick up a handout of the wild edibles in the Whitmire Wildflower Garden, available at the Shaw Nature Reserve Visitor Center.

Always remember to properly identify plants collected in the wild before eating them; many have poisonous look-alikes. Be sure you know which part of the plant to use and how to prepare it—does it need to be cooked or can it be used raw?

Pawpaw (*Asimina triloba*)

- Average height: 20–25 feet
- Large, tropical-looking leaves
- The fruit ripens in early September and resembles small, fat green bananas that taste like a custard made of banana and mango.
- Grows under shade but adapts to full sun.

Blackhaw viburnum (*Viburnum prunifolium*)

- Average height: 10–15 feet
- One of the showiest native shrubs
- Adorned by large clusters of small white flowers in June
- By August or September, the fruit ripens to a dark blue. These may be eaten fresh or processed into a ready-to-spread pulp for toast and for making fruit leather.
- Grows under full to partial sun and is tolerant of a wide variety of soils.

Persimmon (*Diospyros virginiana*)

- Average height: 25–30 feet
- Fruit may ripen as early as late August but seen as late as October or November.
- Be sure that it is ripe (soft with an easily broken thin skin) before taking a bite; the unripe fruit is very astringent.
- The sweet pulp is used to make pudding, bread, and other bakery items.

Shaw Wildflower Market

Friday, September 6,
4 to 7:30 p.m.
Shaw Nature Reserve

Shop a wide variety of native wildflowers, grasses, sedges, small-flowering trees, and shrubs. Also shop for local foods, artwork, and more! Admission: Free for Garden members and Reserve passholders; $5 nonmembers; $3 seniors; free for children 12 and under.

Wild Edibles Class

Saturday, October 19
Noon to 3 p.m.
Shaw Nature Reserve

Learn to identify common seasonal wild edibles and sample a variety of raw and prepared wild foods. For more information, visit **www.mobot.org/classes.**

Tributes

April through June 2013

A tribute gift to the Garden is a wonderful way to honor family and friends. Tributes of $25 or more are listed in the *Bulletin*. If you have questions regarding giving opportunities at the Garden, please call (314) 577-0805. You can also make a tribute gift online at our website, **www.mobot.org**.

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photo by Christopher Gibbons

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Mr. Michael F. Koon and Ms. Samantha L. Lucy
Mr. George Megaw
Mr. and Mrs. Bruce A. Naffziger
Ms. Kathleen M. Pechan
Prairie Wind Ensemble
Mr. Robert Sheldon
Mr. Dean Steiner
Trunk Bay Construction, Inc
Ms. Lisa A. Vincent

Mr. Serra
Mrs. Mary Visintainer

Betsey Sharp
Hidden Springs/Mississippi Bluffs RD

Ms. Virginia Sharp
Dr. Rosalyn Schultz

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Modern and Classical Languages Dept. at Ladue Horton Watkins High School
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Mr. Matthew S. Winschel
The Georgen family

Mr. Gary Wittgenstein
Mrs. Margaret Blades

Mr. Harry E. Wuertenbaecher, Jr.
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Ms. Iris Yager
Mr. and Mrs. Eric R. Weidmann

Dr. Tom Yazdi
Mr. and Mrs. Robert H. Harper
Mr. and Mrs. Virgil D. Seib, Jr.

Members' Entry Court

Bricks dedicated at the Garden April through June 2013. Engraved bricks are a wonderful way to commemorate any special occasion, as well as final memorials. For additional information regarding the Garden's brick program, please contact the Institutional Advancement Office at (314) 577-0805 or visit **www.mobot.org**.

Signature Bronze Bricks

James William Forsen
Mrs. Carolyn F. Blatt

Anne and Jack Heisler
Mr. and Mrs. John C. Heisler

John J. Kolar
The Gelezunas, Kube, and Talbert Families

Alda and Larry McIntyre
Mr. and Mrs. Larry McIntyre

Engraved Clay Bricks

John Joseph Callahan
Mercy NICU

Mary Ruth Cawein
Mrs. Mary Lynn Schmidt

Clare L. Chapman
Ms. Camilla Carlson

Betty Ann Garrido
Mr. and Mrs. Bryant Campbell

Joseph Scott Green
The Gremaud Family

Wayne E. Keck
Ms. Rochel Means

Regina Gloria Kekeisen
Mr. Frank J. Kekeisen
Family and Friends

Paula Kipnis
Dr. and Mrs. Emil R. Unanue

Janice L. Kopp
Roberta Kopp
Thomas W. Kopp
Mr. Thomas W. Kopp

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Mr. and Mrs. John P. Schmierbach

Robert "Jip" Schreck
Rob and Tina Schreck
Kenneth and Sally Thomas
Warren and Donna Woerth

Nancy and Al Siwak
Mr. and Mrs. Myron A. Berezin

Judy and Robert Wernert
Mr. and Mrs. Robert F. Wernert, Jr.

The Yeager Family
Mr. John H. Yeager

Sophia M. Sachs Butterfly House Tributes & Pavers

Tributes and Pavers dedicated at the Butterfly House April through June 2013. To learn more, call (314) 577-0805 or visit **www.butterflyhouse.org**.

Tributes

In Memory of

Mrs. Lesslie Frawley
Dr. and Mrs. Dennis Done
Mr. and Mrs. Larry W. Hasselfeld
Mr. and Mrs. Glenn Hoffmeister
Ms. Jackie Juras
Mr. and Mrs. Charles Kleiman
Mr. and Mrs. John H. Maxwell
Miracle Supply Company
Mr. and Mrs. James J. Murphy, Jr.
Plant Performance Services LLC
Mr. and Mrs. Stewart Rayfield
Ms. Patricia Riggs
Mrs. Ellyn Rubin
Mr. and Mrs. Cecil Stuart
Mr. and Mrs. Joseph Vojvoda
Mr. and Mrs. Steve Williams
Ms. Nancy Williams-Waldschmidt and Mr. Michael Waldschmidt

Lucy L. Lopata
June and Fred Kummer
Mr. and Mrs. Joseph F. Shaughnessy

Ms. Mychel Brooke Neuman
Mr. and Mrs. Andy Wasserman

Mrs. Iva "Skippy" A. Wheelis
Mr. David Heppermann
Mr. Robert Payne
Mr. Barry T. Poehlman
Mr. Ronald Williams and Mr. Chris Boschen

Pavers

Laverne M. Bierman
Ms. Diane Bierman

Carl and Gabriella Bolm
Mr. and Mrs. Don Guenther

Robin Anne Davison
Elliot, Emily and Matthew Pokoik

Steve and Mary Beth Dick
David and Jane

Audrey Jane Elton
Judith A. Scott and Alice Laverne Howard

Jacob Eden Fajuri
Mr. and Mrs. Charles D'Arcy Fox

Arthur Sanders Fox
Mr. and Mrs. Charles D'Arcy Fox

Pamela A. Green
Ferrell Woodruff

Leah Hammer
Mr. Mark Hammer and Ms. Nicole Chiravollatti

Carol Christine Ingolia
Aunts Shirley, Elaine, Theresa, Joanne and Chris
Uncles Prep and Charlie

Robin Stoliar Lloyd
Jerry and Greta Stoliar

Ruth Ann Ramey
Mrs. Carrie S. James

Kirk, Tammy, Mason and Brynna Vogler
Kirk and Tammy Vogler

Seen at the Garden

Terence Blanchard and his band

Cindy Hults, Sarah and Cary Stalnecker, Matt and Katie Stocke

Whitaker Music Festival Terence Blanchard

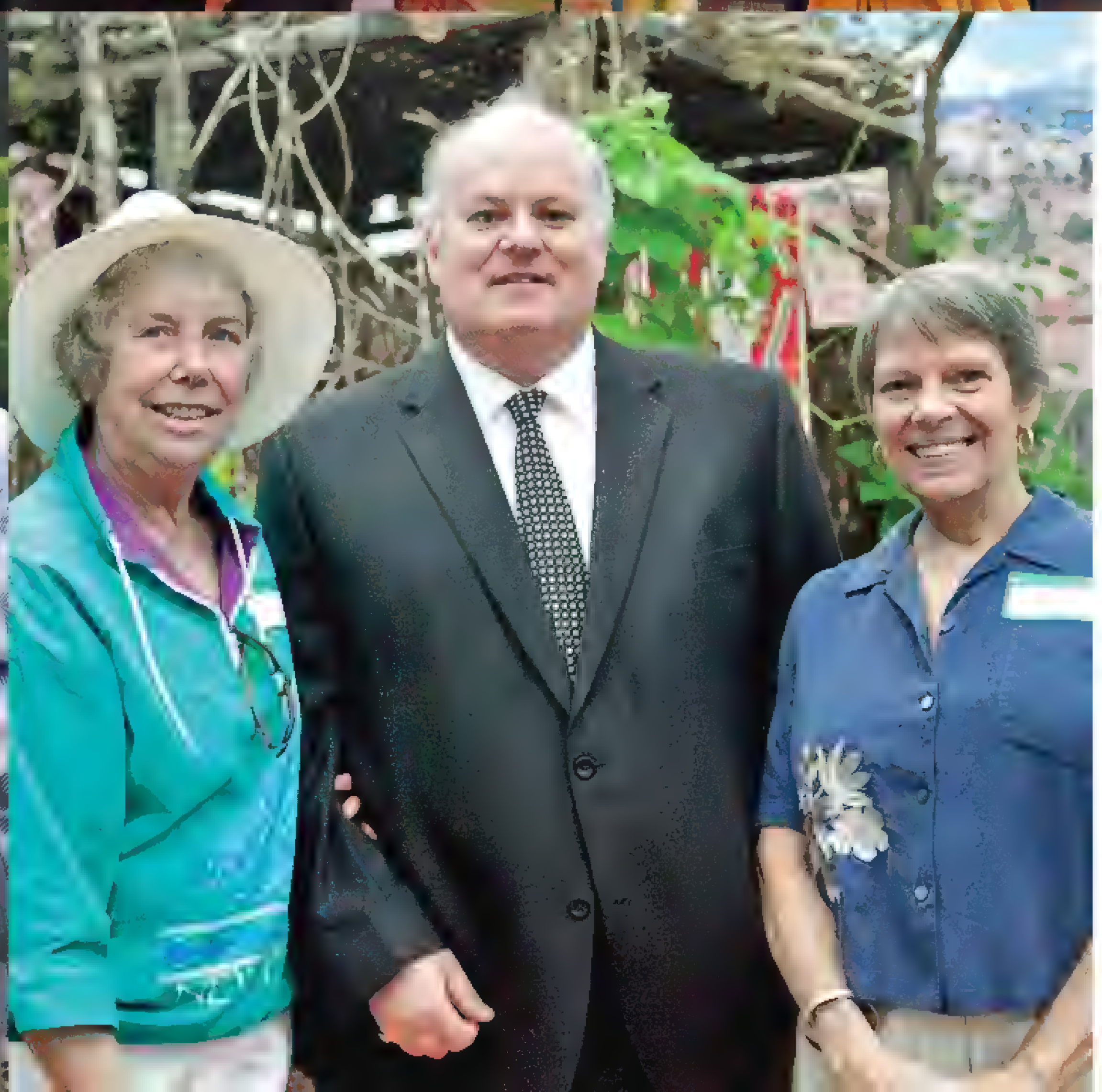
June 12, 2013

The Garden presented a special evening with internationally renowned jazz trumpeter and composer Terence Blanchard while hosting the Young Friends Council for its new-member welcome meeting.

(photos by Molly Krohe)

Christy Gray, Terence Blanchard

Karen Lohkamp and Ashley Brewer



Heritage Society Reception

July 12, 2013

Nearly 100 members of the Heritage Society enjoyed this year's inaugural Desert Show during an evening reception with Dr. Peter Wyse Jackson.

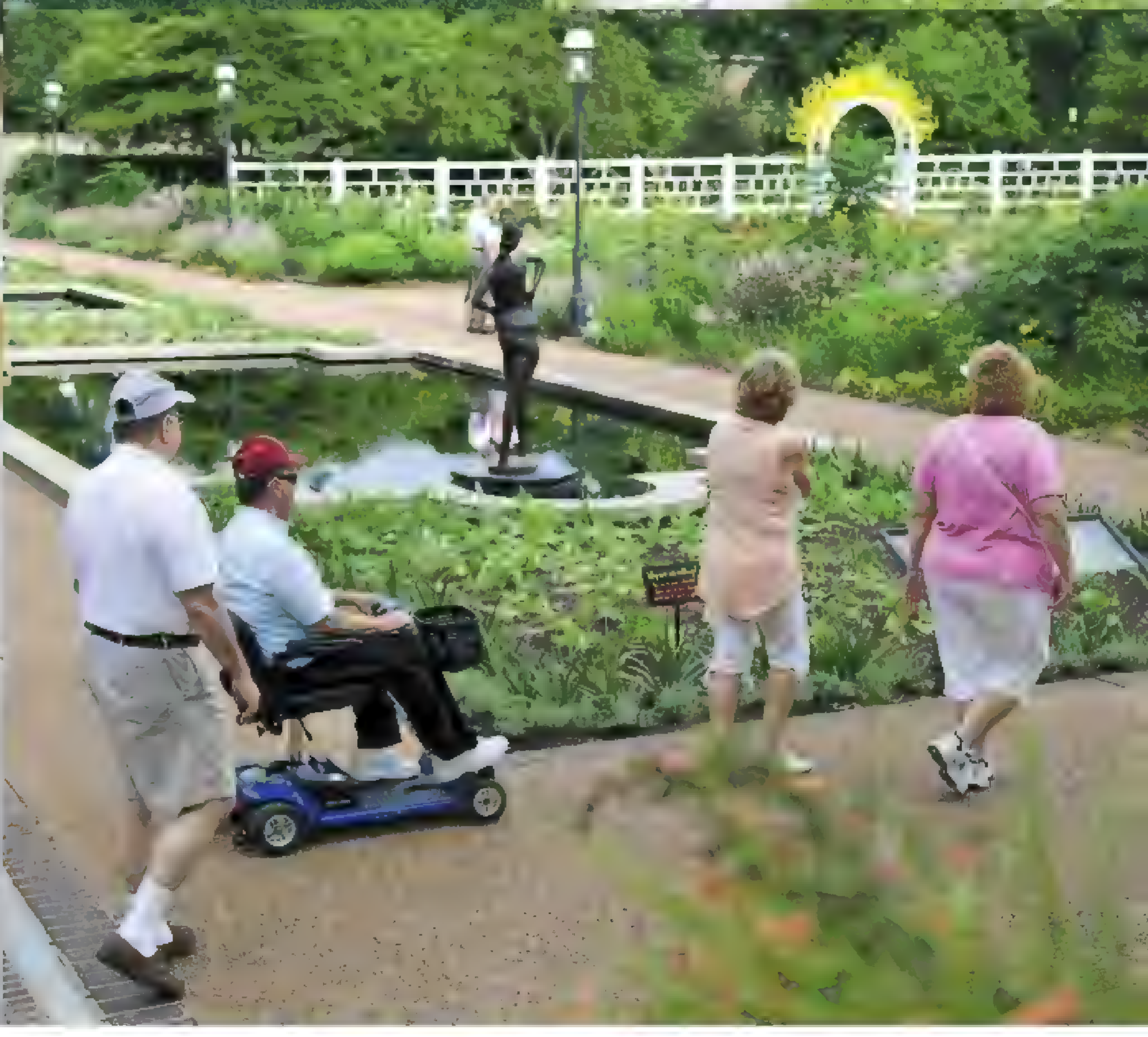
(photos by Rebecca Hensiek)

Members' Evenings

Tuesdays this summer

Every Tuesday evening, approximately 300 members enjoyed the after-hours serenity of the Garden in the summer, including walking tours with a Garden Docent and chess games with members of the Chess Club and Scholastic Center of Saint Louis.

(photos by Rebecca Hensiek and Molly Krohe)



MEMBER EVE
Family Picnic
LINE FOR BALLOON ARTISTS BEGINS HERE
One balloon per child please
MISSOURI BOTANICAL GARDEN

Family Picnic

July 18, 2013

Presented by Peabody Energy.

About 720 members enjoyed this members-only family picnic with music, face painters, crafts, balloon artists, and a chance to play in the Children's Garden after-hours.

(photos by Molly Krohe)

Events

Herbalooza

Wednesday, September 11, 5 p.m.
Join the St. Louis Herb Society and the Members' Board for an herb celebration! Enjoy live music, a silent auction, and advice from herb experts. Herb talks: 5:30 and 6 p.m. $10 members; $12 nonmembers. Cash bar available. Guests must be 21. Reservations required: **www.mobot.org/events** or (314) 577-5118.

Shaw Photography Series: Finding Your Focus presents An Evening with Jim Brandenburg

Friday, September 20, 7 to 9 p.m. Shoenberg Theater
Starting this fall, Shaw Nature Reserve kicks off a series of photography-themed events, beginning with an evening with internationally acclaimed photographer Jim Brandenburg. $20 members; $24 nonmembers. Reservations required: **www.shawnature.org.**

October Owls and Orchids

October 1–31, 9 a.m. to 4 p.m., Butterfly House
Beautiful orchids are the backdrop for almost 2,000 owl butterflies filling the conservatory this month. Come Tuesday evenings from 4:30 to 7 p.m. to see them when most animated and enjoy animals from the St. Louis Zoo and Wild Bird Sanctuary. Closed Mondays. Tuesday evening prices: Butterfly House admission plus $3 for members and $6 for nonmembers.

Special members-only tours on Tuesday, October 8 at 10 a.m. and 1 p.m. Free but reservations required: (636) 530-0076 ext. 10.

JAPANESE FESTIVAL

August 31 – September 2

Experience the thunderous pounding rhythms of the *taiko* drums. Watch the unfolding drama of a sumo match. Japanese Festival takes you and your family on a three-day cultural adventure right here at the Garden. $5 members (ages 13 and up); free for member children; $15 adults; $5 children (3 to 12).

Presented by Wells Fargo Advisors. Additional sponsorship support by Novus International and TOYOTA Bodine.

What Darwin Missed

Thursday, October 3, 2 to 3 p.m., Shoenberg Theater
Dr. David Bramwell, recently retired Director of the Jardín Botánico Canario Viera y Clavijo in Gran Canaria, Spain, and recipient of the 2013 Henry Shaw Medal, will present his lecture "What Darwin Missed: Botanical Exploration in the Atlantic Islands by William Trelease, 1st Director of the Missouri Botanical Garden." Free and open to the public. For more information, visit **www.mobot.org.**

Young Friends' Fest-of-Ale

Friday, October 18, 6 to 9 p.m.
Join the Young Friends of the Garden for the sixth annual Fest-of-Ale. Enjoy offerings from the region's microbreweries, hors d'oeuvres, and live music by Mike Mattingly. $25 members; $35 nonmembers. Prices increase $5 after September 20. Reservations required: **www.mobot.org/festofale.**

Children's Garden, narrated tram tours, and Terrace Café will close for the season Sunday, November 3.

Booterflies

Friday, October 25–Sunday, October 27, 4:30 to 7 p.m., Butterfly House
Halloween family-fun events, featuring insect-inspired games, food, and spooktacular crafts. For children ages 10 and under with their families. $13 members; $18 member children (ages 2 to 12); $15 adults; $20 children (ages 2 to 12). Reservations required: **www.butterflyhouse.org.**

Presented by Graybar.

Children's Garden Seasonal Closing

Saturday and Sunday, November 2 and 3, 9 a.m. to 3 p.m.
Celebrate the turning of the seasons with fun activities as we put the Children's Garden to bed! $3 member children; $5 children; adult admission included with Garden admission.

Gardenland Express

Saturday, November 23–Sunday, January 5, 2014, 9 a.m. to 4 p.m., Orthwein Floral Display Hall
The annual holiday flower and train show features G-scale model trains traveling through a miniature landscape of living plants. Admission*: free for members; $5 plus Garden admission for nonmembers. Closed Christmas Day.

*Special nighttime rates apply; visit **www.mobot.org** for more details.

Holiday Wreath Auction

Saturday, November 23–Sunday, January 5, 2014
The exhibit features unique creations by some of the area's finest floral designers. All wreaths are sold by silent-auction bidding, and all proceeds benefit the Garden. Closed Christmas Day. Included with Garden admission.

Chanukah: Festival of Lights

Sunday, November 24,
Noon to 4 p.m.
A traditional Jewish holiday celebration with festive Israeli music and dance, a menorah-lighting ceremony, and Chanukah merchandise. Included with Garden admission.

Best of Missouri Market®

Friday, October 4, 6 to 9 p.m.,
Saturday and Sunday,
October 5–6, 9 a.m. to 5 p.m.
Shop over 120 Missouri food producers and crafters, and enjoy live music and a Kids Corner with pumpkin decorating and barnyard animals.
$5 members (ages 13 and up);
free for member children;
$12 adults; $5 children (3 to 12).

First Look Friday:
Enjoy an early chance to shop and dine from 6 to 9 p.m.

Members-only Shopping Hour:
Enjoy breakfast as you shop from 8 to 9 a.m. before the crowds. Join the Garden or renew your membership at the Market and get in free!

Presented by Schnuck Markets, Inc.

GARDEN
GLOW

November 23–January 4, 2014
See page 5 for more information.

photos by JJ Lane and Christopher Gibbons

Green Homes & Great Health Festival

Saturday, September 28,
9 a.m. to 4 p.m.
Explore sustainable living options with over 100 green product and service exhibitors. Shop the Green Marketplace, enjoy local foods and music, get free health assessments, get expert tips on home energy savings, and more! Kids can paint an eco-themed Metro bus while adults enjoy the new DIY Activities Area. Included with Garden admission.

Presented by Ameren Missouri.

JUST FOR MEMBERS

Ghouls in the Garden

Sunday, October 27, 1 p.m.
Visit the Garden for witches, pirates, and ghosts! Children in costumes can enjoy treats at themed stations. $5 member children (ages 3–12), including free admission to the Children's Garden. Reservations required: (314) 577-5118 or **www.mobot.org/events.** Reservation times: 1 p.m., 1:30 p.m., and 2 p.m.

Presented by Macy's.

Member Day: Henry Shaw's Landscapes with John Karel

Thursday, September 26, 11 a.m.,
Shoenberg Theater
Tower Grove Park director John Karel discusses Henry Shaw's landscapes. Learn about what inspired the design and development of Tower Grove Park and the Missouri Botanical Garden. Reservations required and space is limited: (314) 577-5118 or **www.mobot.org/events.**

Best of Missouri Market Members-only Shopping Hour

Saturday, October 5, 8 a.m.
See box for more details.

Member Day: October Owls and Orchids

Tuesday, October 8, Butterfly House
See page 18 for more details.

Member Day: Holiday Decorating

Tuesday, November 12, 11 a.m.,
Shoenberg Theater
Experts from Sugar Creek Gardens offer tips and demonstrations to help you deck your halls for the holidays! Reservations required and space is limited: (314) 577-5118 or **www.mobot.org/events.**

Garden Glow: Member Night

Friday, November 22, 6 to 9 p.m.
See it first! Enjoy Garden Glow during this special members-only night before it opens to the public. Reservations required. Purchase tickets at **www.mobot.org/glow.**

September 2013

average temperature: low 61°, high 81°

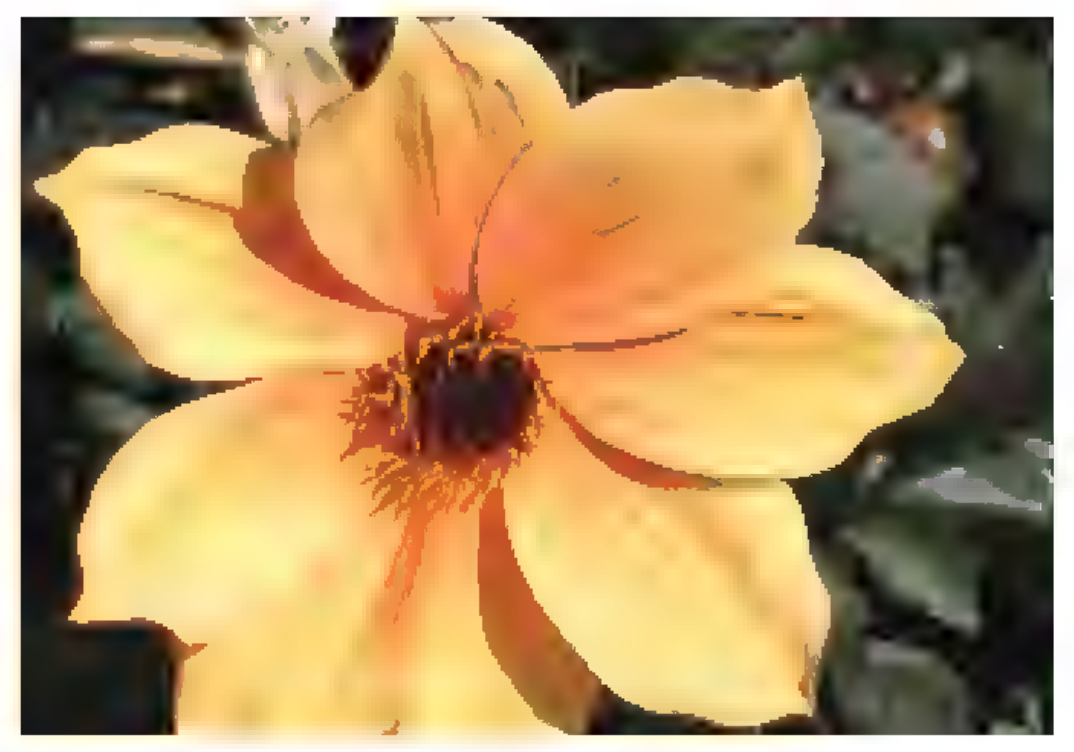
average precipitation: 3.4 in.

What's in bloom?

Turtlehead

Cockscomb

Pitcher plant


Dahlia 'Mystic Spirit'

Skullcap

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1 JAPANESE FESTIVAL 10 a.m. to 8 p.m., $ 🛍	2 **LABOR DAY** JAPANESE FESTIVAL 10 a.m. to 5 p.m., $ 🛍	3	4	5 **ROSH HASHANAH**	6 ■ Shaw Wildflower Market, 4 to 7:30 p.m. $ SNR	7 ■ *Flora of Missouri* book signing with author George Yatskievych, 11 a.m. to 1 p.m. GGS
8 **GRANDPARENTS DAY** ■ Café Flora Brunch, 10 a.m. $ SP	9	10	11 ■ Herbalooza, 5 to 7:30 p.m. ☎ $	12 ■ Foodology Film Series: *American Meat,* 7 to 9 p.m.	13	14 **YOM KIPPUR** ■ *Kirkwood* book signing with author Vicki Erwin, 11 a.m. to 1 p.m. GGS
15 ■ Café Flora Brunch, 10 a.m. $ SP	16 ■ After-hours Photography: Japanese Garden, 5 or 6:15 p.m. ☎ $ JG	17	18	19	20 ■ Around the World Wine Dinner, 6:30 p.m. ☎ $ ■ An Evening with Jim Brandenburg, 7 to 9 p.m. ☎ $ ST **Spring Bulb Sale through September 23, Garden Gate Shop**	21 ■ Great Green Adventures: Exploring the Sensory Garden, 10:30 a.m. and 1:30 p.m. $ CHD
22 ■ Café Flora Brunch, 10 a.m. $ SP	23	24	25	26 ✿ Member Day: Henry Shaw's Landscapes with John Karel, 11 a.m. ☎ 🛍 ST	27	28 2013 green homes great health FESTIVAL 9 a.m. to 4 p.m. ■ Wing Ding, 6:30 p.m. ☎ $ BH
29 ■ Café Flora Brunch, 10 a.m. $ SP	30					

KEY (All events take place at the Garden unless otherwise noted.)

BH	Butterfly House	KC	Kemper Center for Home Gardening
BHGS	Butterfly House Gift Shop	LS	Little Shop Around The Corner
CA	Cohen Amphitheater	MC	Monsanto Center
CBEC	Commerce Bank Center for Science Education	MH	Monsanto Hall (in RVC)
CHD	Children's Garden	RVC	Ridgway Visitor Center
CL	Climatron lawn	SNR	Shaw Nature Reserve
GGS	Garden Gate Shop	SP	Spink Pavilion
JE	Jordan Education Wing (in RVC)	ST	Shoenberg Theater (in RVC)

✤	Sassafras
✿	Members-only event
🛍	20% Member discount at the Garden Gate Shop
☎	Reservations required
$	Fee required

photos by Lisa Francis and Emily Amberger

October 2013

average temperature: low 50°, high 69°
average precipitation: 3.4 in.

What's in bloom?

Doublefile viburnumv

Shrub rose

Spiked speedwell

Autumn crocus

Monk's hood

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		1 ■ October Owls and Orchids, *through October 31,* 9 a.m. to 4 p.m. BH	2	3 ■ "What Darwin Missed" by Dr. David Bramwell, 2 to 3 p.m. ST	4 **Best of Missouri Market** "First Look Friday," 6 to 9 p.m. $ 🛍	5 **Best of Missouri Market** 9 a.m. to 5 p.m. $ 🛍 ✿ Best of Missouri Market® Members-only Shopping Hour and Breakfast, 8 to 9 a.m.
6 **Best of Missouri Market** 9 a.m. to 5 p.m. $ 🛍	7 **WORLD HABITAT DAY**	8 ✿ Member Day: October Owls and Orchids, 10 a.m. and 1 p.m. ☎ 🛍 BH ■ October Owls and Orchids Extended Hours 4:30 to 7 p.m. $ BH	9	10 ■ Native Plant School: Low-maintenance Ground Cover Gardening, 1 to 4 p.m. ☎ $ SNR	11	12
13	14 **COLUMBUS DAY**	15 **EID-AL-ADHA** ■ October Owls and Orchids Extended Hours 4:30 to 7 p.m. $ BH	16 **WORLD FOOD DAY**	17	18 ■ Around the World Wine Dinner, 6:30 p.m. ☎ $ ■ Young Friends' Fest-of-Ale, 6 to 9 p.m. ☎ $	19 ■ Great Green Adventures: Weather Watchers, 10:30 a.m. and 1:30 p.m. $ CHD
20	21 ■ *Missouri River Country* book signing with editor Dan Burkhardt, 4 to 6 p.m. RVC	22 ■ October Owls and Orchids Extended Hours 4:30 to 7 p.m. $ BH	23	24	25 ■ Booterflies, 4:30 to 7 p.m. ☎ $ BH	26 ■ Booterflies, 4:30 to 7 p.m. ☎ $ BH ■ Partners for Just Trade trunk show, GGS ■ *Murder & Mayhem In Missouri* book signing with author Larry Wood, 11 a.m. to 1 p.m. GGS
27 ■ Booterflies, 4:30 to 7 p.m. ☎ $ BH ■ Partners for Just Trade trunk show, GGS ✿ Ghouls in the Garden, 1 p.m. ☎ $ 🛍	28	29 ■ October Owls and Orchids Extended Hours 4:30 to 7 p.m. $ BH	30 www.plasticpot recycling.org Through Oct. 31	31 **HALLOWEEN**		

photos by Lisa Francis, Kevin Kersting, and Tom Incrocci

November 2013

average temperature: low 39°, high 56°
average precipitation: 4.2 in.

What's in bloom?

Heliotrope

Aphelandra

Strawflower

Crown of thorns

Plumbago

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
GARDEN GLOW	**November 23 through January 4** Experience hundreds of thousands of lights adorning the Garden's most iconic locations! **www.mobot.org/glow**	gift of the GARDEN	**Get a jump on holiday shopping! Buy Garden, Garden Plus, and Family level gift memberships at 20% off November 6–10.** (Discounts apply to sales at the Garden only.)		1	2 ■ Children's Garden Seasonal Closing, 9 a.m. to 3 p.m. $ CHD
3 **DIWALI** ■ Children's Garden Seasonal Closing, 9 a.m. to 3 p.m. $ CHD ■ Tram operations, Terrace Café, and Children's Garden closing for the season.	4	5 **ISLAMIC NEW YEAR**	6 ■ After-hours Photography: Climatron and Temperate House, 5:15 to 6:30 p.m. ☎ $ CL	7 ■ Native Plant School: Low-maintenance Ground Cover Gardening, 1 to 4 p.m. ☎ $ SNR	8	9 ■ *The New Regionalism* book signing with author and artist Bryan Haynes, 11 a.m. to 1 p.m. GGS ■ Partners for Just Trade trunk show, GGS
			Gift Membership 20% Off Sale plus members get 20% off at the Garden Gate Shop, *through November 10*			
10 **WORLD SCIENCE DAY** ■ Partners for Just Trade trunk show, GGS	11 **VETERANS' DAY**	12 ✿ Member Day: Holiday Decorating, 11 a.m. ☎ 🛍 ST	13	14	15 ■ Around the World Wine Dinner, 6:30 p.m. ☎ $	16 ■ Great Green Adventures: Who's Here Now?, 10:30 a.m. and 1:30 p.m. $ CHD
17	18	19 ■ After-hours Photography: Climatron and Temperate House, 5:15 to 6:30 p.m. ☎ $ CL	20 ■ Victorian Christmas at Tower Grove House, *through January 5, 2014*	21	22 ✿ Garden Glow: Member Night, 6 to 9 p.m. ☎ $ 🛍	23 ■ Garden Glow, *through January 4, 2014* ■ Gardenland Express and Holiday Wreath Auction, *through January 5, 2014* ■ Holiday hours begin, *through January 5, 2014,* Garden closes at 4 p.m.
24 ■ Chanukah: Festival of Lights, Noon to 4 p.m.	25	26	27	28 **THANKSGIVING** **CHANUKAH** ■ The Butterfly House is closed.	29	30

photos by Lisa Francis and Kevin Kersting

DRESS UP YOUR PLATE

Summer's winding down, but there are still ways to enjoy some of the season's best flavors. Browse the Garden Gate Shop's selection of food preservation books or stop by our booth at Best of Missouri Market, where you can sample select jams, sauces, and dressings from our private label collection.

Saving the Season
KEVIN WEST
A cook's guide to home canning, pickling, and preserving
Missouri Botanical Garden
Habanero Barbecue Sauce
Vidalia Onion Creamy Cucumber Dressing
NET 12.0 fl oz. (354ml)
All Natural Honeybell Marmalade
Net Wt. 10.5 oz. (297g)
All Natural Red Raspberry Pretzel Dip
Net Wt. 10.0 oz. (283g)

photo by Rebecca Hensiek

GARDEN GATE SHOP.ORG

All proceeds benefit the Missouri Botanical Garden

DON'T FORGET!
Best of Missouri Market
is October 4 through
October 6

green today
greener tomorrow

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MISSOURI BOTANICAL GARDEN
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photo by Charles Schmidt

Best of Missouri Market

Friday, October 4, 6 to 9 p.m., Saturday and Sunday, October 5–6, 9 a.m. to 5 p.m.

Shop over 120 Missouri food producers and crafters, and enjoy live music and a Kids Corner with pumpkin decorating and barnyard animals. $5 members, $12 adults (13 and up), $5 children (3 to 12). For information and tickets, visit **www.mobot.org/bestofmomarket.**

Presented by Schnucks

Additional sponsorship support by AgriMissouri, Blue Owl Restaurant and Bakery, Commerce Bank, Drury Hotels Company, Edward Jones, The Home Depot, Hussmann Corporation, KMOX, Ronnoco Coffee, Waterway Gas & Wash Company, and Wehrenberg Theatres.